

MONTANA FISH, WILDLIFE AND PARKS  
NOXIOUS WEED MANAGEMENT  
FISCAL YEAR 2016



Photo Credit: Brent Lonner, Sun River Wildlife Management Area

Prepared by: Christopher Hagan  
Region 2 WMA Maintenance Supervisor/Statewide Weed Coordinator  
Montana Fish, Wildlife and Parks  
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# TABLE OF CONTENTS

EXECUTIVE SUMMARY .....	2
WEED MANAGEMENT DATA TABLES .....	4
-- Statewide Summary.....	5
-- Region 1 .....	6
-- Region 2 .....	9
-- Region 3 .....	14
-- Region 4 .....	19
-- Region 5 .....	24
-- Region 6 .....	27
-- Region 7 .....	30
APPENDIX A - Miscellaneous Weed Reports as Submitted by Regional Program Staff.....	33

## EXECUTIVE SUMMARY

This report summarizes weed management accomplishments and expenditures across three Divisions of Montana Fish, Wildlife and Parks (FWP) during Fiscal Year 2016, which includes July 1, 2015 through June 30, 2016.

FWP administers 615 distinct sites across the state and is responsible for noxious weed management on each of these areas. The acreages associated within each separate Division are as follows:

- The Fisheries Division manages about 19,000 acres in fee title and leased lands across 386 sites, primarily as Fishing Access Sites (FAS's).
- The Wildlife Division manages about 552,000 acres in fee title and leased lands across 104 sites, primarily as Wildlife Management Area (WMA) lands.
- The Parks Division manages about 44,000 acres in fee title and leased lands across 92 sites, primarily as State Parks.

FWP continues to implement an integrated approach to controlling noxious weeds, as further described in FWP's statewide noxious weed plan (2008). That plan can be accessed and downloaded using the following web link: <http://fwp.mt.gov/fishAndWildlife/habitat/noxiousWeeds/default.html>

Using an integrated approach to managing weeds, FWP staff prioritize efforts and select the most appropriate technique for addressing each noxious weed issue. For instance, infestations with a high likelihood of spreading to new locations are a priority for herbicide treatment, including parking lots, roads, and other high public use areas. New starts in areas that lack infestations or new noxious weed species are also a high priority for treatment and eradication, if possible. Vast infestations often require a different approach in collaboration with neighboring properties and county weed coordinators. Biocontrol in combination with herbicide applications at strategic locations are commonly used as a long-term solution where infestations are extensive, spanning multiple ownerships.

FWP also strives to take an ecological approach to weed management and prevention. This includes, where possible, avoiding ground disturbance, minimizing impacts from construction or other management activities, and being mindful to avoid impacting non-target vegetation when implementing weed control measures.

During FY2016, FWP treated approximately 6,000 acres with herbicides at a cost of over \$250,000, which is about 17% of estimated infested acres (Table 2). With other types of treatments – mechanical, grazing, and insect/biocontrol, the department expended a total of \$400,000 on weed management. Personnel costs, training, education and outreach, and other aspects of weed management and prevention are not included in these figures.

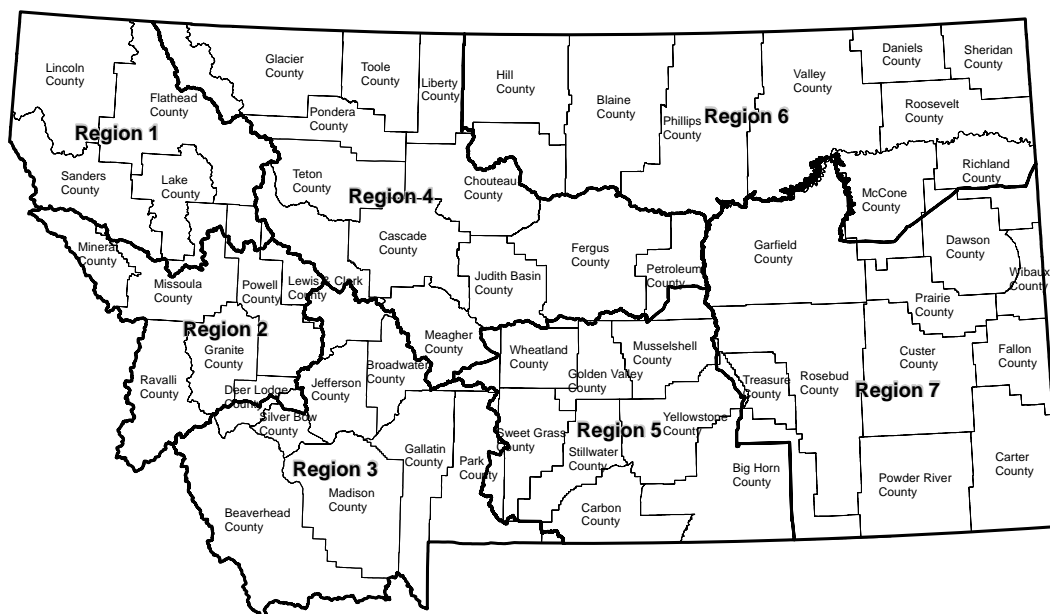
In addition to work on FWP lands, the department also provides funding toward weed management on private lands through the Block Management Program (Table 1). In 2016, FWP paid over \$185,000 to private landowners specifically for weed control.

**Table 1. Summary of payments during 2016 to private landowners through the Block Management Program.**

Region	Total BMAs	Weed Payment	Total Payment
1	15	\$1,103	\$23,169
2	71	\$18,675	\$480,902
3	84	\$19,254	\$671,830
4	116	\$34,534	\$894,680
5	115	\$21,117	\$462,681
6	174	\$43,613	\$1,006,213
7	264	\$47,432	\$1,118,243
<b>Totals:</b>	<b>839</b>	<b>\$185,728</b>	<b>\$4,657,717</b>

FWP works closely with other government agencies including DNRC, USFS, and County Weed Coordinators along with private contractors and private land owners, to coordinate weed control efforts and to help contain the spread of noxious weeds throughout the state.

The Data Tables Section of this report, which follows, summarizes weed infestation and control activities over most of the sites managed by FWP. These data are collected annually from staff responsible for managing these sites. Data are organized by Administrative Region (Figure 1) and then by Division and County.



**Figure 1. Montana Fish, Wildlife and Parks Regional Boundaries**

## WEED MANAGEMENT DATA TABLES

**Table 2. Statewide summary of weed management activities of Montana Fish, Wildlife and Parks for all Regions and Divisions during Fiscal Year 2016.**

Administrative Region	Reported	Chem. Treatment		Mech. Treatment		Insect		Grazing		Miscellaneous	Total Expended by Region
	Infested Acres	Arces	Cost	Acres	Cost	Releases	Cost	Acres	Cost	Cost	
Wildlife Management Areas	0	1203	\$55,670.00	122	\$5,220.00	0	\$0.00	0	\$0.00	\$350.00	\$61,240.00
Fishing Access Sites	117	115.9	\$3,632.88	32.75	\$2,082.50	0	\$0.00	0	\$0.00	\$1,545.00	\$7,260.38
State Parks	1287	285.8	\$13,513.31	62	\$6,140.00	0	\$0.00	0	\$0.00	\$973.00	\$20,626.31
Region 1 Totals	1404	1604.7	\$72,816.19	216.75	\$13,442.50	0	\$0.00	0	\$0.00	\$2,868.00	\$89,126.69
Wildlife Management Areas	12106	442.9	\$26,941.80	48	\$3,950.00	12	\$1,200.00	0	\$440.00	\$0.00	\$32,531.80
Fishing Access Sites	991.2	196	\$11,637.50	46.6	\$18,149.36	0	\$0.00	0	\$0.00	\$0.00	\$29,786.86
State Parks	844.2	279	\$14,435.90	110	\$19,421.81	2167	\$2,000.00	0	\$0.00	\$0.00	\$35,857.71
Region 2 Totals	13941.4	917.9	\$53,015.20	204.6	\$41,521.17	2179	\$3,200.00	0	\$440.00	\$0.00	\$98,176.37
Wildlife Management Areas	14205	144.8	\$7,340.00	0	\$0.00	0	\$0.00	18000	\$991.00	\$0.00	\$8,331.00
Fishing Access Sites	355.58	13.9267	\$5,616.38	0	\$0.00	0	\$0.00	0	\$0.00	\$40,041.78	\$45,658.16
State Parks	43.5	50	\$20,426.00	150.5	\$3,620.00	9	\$1,700.00	0	\$0.00	\$0.00	\$25,746.00
Region 3 Totals	14604.08	208.7267	\$33,382.38	150.5	\$3,620.00	9	\$1,700.00	18000	\$991.00	\$40,041.78	\$79,735.16
Wildlife Management Areas	3052	1087	\$7,374.44	0	\$0.00	60	\$4,995.00	0	\$0.00	\$5,271.02	\$17,640.46
Fishing Access Sites	200.05	198.92	\$18,834.59	0	\$0.00	0	\$0.00	0	\$0.00	\$780.00	\$19,614.59
State Parks	373	184	\$16,460.62	139	\$0.00	5	\$0.00	0	\$0.00	\$13,292.93	\$29,753.55
Region 4 Totals	3625.05	1469.92	\$42,669.65	139	\$0.00	65	\$4,995.00	0	\$0.00	\$19,343.95	\$67,008.60
Wildlife Management Areas	887	26	\$6,403.17	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$6,403.17
Fishing Access Sites	1005.55	1026.803	\$19,818.67	46.75	\$3,307.50	0	\$0.00	290.64	\$2,920.00	\$0.00	\$26,046.17
State Parks	63	32	\$2,187.00	40	\$763.61	0	\$0.00	0	\$0.00	\$4,708.73	\$7,659.34
Region 5 Totals	1955.55	1084.803	\$28,408.84	86.75	\$4,071.11	0	\$0.00	290.64	\$2,920.00	\$4,708.73	\$40,108.68
Wildlife Management Areas	329.2	471.2	\$3,968.25	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$3,968.25
Fishing Access Sites	32.35	17.75	\$1,539.44	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$1,539.44
State Parks	0.5	0	\$0.00	1.5	\$25.00	0	\$0.00	0	\$0.00	\$259.99	\$284.99
Other Sites	36.3	8.7	\$635.00	15	\$250.00	0	\$0.00	0	\$0.00	\$0.00	\$885.00
Region 6 Totals	398.35	497.65	\$6,142.69	16.5	\$275.00	0	\$0.00	0	\$0.00	\$259.99	\$6,677.68
Wildlife Management Areas	330.63	60	\$4,706.80	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$4,706.80
Fishing Access Sites	187.02	99.45	\$10,037.42	0	\$0.00	0	\$0.00	0	\$0.00	\$579.26	\$10,616.68
State Parks	91.6	81	\$6,002.09	4.5	\$0.00	0	\$0.00	0	\$0.00	\$7,369.25	\$13,371.34
Other Sites	2	0.5	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$76.60	\$76.60
Region 7 Totals	611.25	240.95	\$20,746.31	4.5	\$0.00	0	\$0.00	0	\$0.00	\$8,025.11	\$28,771.42
<b>Statewide Reported Totals</b>	<b>36539.68</b>	<b>6024.6497</b>	<b>\$257,181.26</b>	<b>818.6</b>	<b>\$62,929.78</b>	<b>2253</b>	<b>\$9,895.00</b>	<b>18290.64</b>	<b>\$4,351.00</b>	<b>\$75,247.56</b>	<b>\$409,604.60</b>

## Region 1 FY16 Noxious Weed Management Report

### Wildlife Management Areas

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Agmmt. Y/N	Status			Arces	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
Flathead County																
North Shore/State Park	160	7	N	C	4,6,24	NR	30	\$3,420								\$3,420
North Shore WMA	189	7	N	C	1,4,6,24	NR	20	\$2,280								\$2,280
Ray Kuhns	1609	7	N	C	2,4	NR										\$0
Hay Creek FCA	51	7	N	C	3,4,6,13,24	NR	15	\$1,710								\$1,710
Ospery View FCA	71	7	N	C	1,3,4,13,24	NR	10	\$1,140								\$1,140
Foys Bend FCA	245	7	N	C	1,3,4,6,13,24	NR	20	\$2,280								\$2,280
Otter Island FCA	166	7	N	C	1,4,6,13	NR	80	\$7,410								\$7,410
Lake County																
Ninepipe	4200	15	N	C	1,3,4,5,6,7,9,1 0,11,12,13,15,19,24	NR	228	\$6,600	110	\$4,900					\$250	\$11,750
North Swan WMA	1892	15	N	C	1,4,6,11,13,24	NR	30	\$4,560								\$4,560
Pablo	165	15	N	C	1,3,4,7,24	NR	0		1	\$150					\$100	\$250
North Swan Valley FCA	487	15	N	C	1,3,4,6,13,24	NR	40	\$2,280								\$2,280
Lincoln County																
Kootenai/Falls	172	56	N	C	1,3,13	NR	10	\$200	10	\$150						\$350
Kootenai/West	920	56	N	C	1,4	NR										\$0
Kootenai/Woods Ranch	1417	56	N	C	1,6,7,11,24	NR	150	\$4,500								\$4,500
Sanders County																
Bull River	1585	35	N	C	24	NR	10	\$250								\$250
Full Curl	438	35	N	C	10,24	NR										\$0
Sheep Viewing	49	35	N	C	24	NR			0.5	\$10						\$10
Mount Silcox	1598	35	N	C	1,2,7,11,24	NR	560	\$19,040								\$19,040
Roundhorn	27	35	N	C	1,11	NR			0.5	\$10						\$10
WMA Totals	15441					0	1203	\$55,670	122	\$5,220	0	\$0	0	\$0	\$350	\$61,240

NR = Not Reported

#### Weed Species Key

1 = Spotted Knapweed  
2 = Leafy Spurge  
3 = Dalmation Toadflax  
4 = Canada Thistle  
5 = Field Bindweed  
6 = Houndstongue

7 = Sulfur Cinquefoil  
8 = Diffuse Knapweed  
9 = Russian Knapweed  
10 = Whitetop  
11 = St. Johnswort  
12 = Common Tansy

13 = Ox-eye Daisy  
14 = Dyers Wood  
15 = Purple Loosestrife  
16 = Tansy Ragwort  
17 = Meadow Hawkweed  
18 = Orange Hawkweed

19 = Tall Buttercup  
20 = Tamarisk (Saltcedar)  
21 = Yellow Starthistle  
22 = Common Crupina  
23 = Rush Skeletonweed  
24 = Misc. Weeds

\*County Agreement Status = Current(C), or Pending(P)

## Region 1 FY16 Noxious Weed Management Report

### Fishing Access Sites

County Spray																
Site Name	Acres	Co #s	Agrmnt.		Weed	Infested	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc.	Total
			Y/N	Status	Species	Acres	Arces	Cost	Acres	Cost	Releases	Cost	Acres	Cost	Cost	Cost
Flathead County																
Beaver	2	7	N	-	4,13	0.25	0.1	\$18								\$18
Bigfork	0.73	7	N	-	1,4	0	0									\$0
Blanchard Lake	10.24	7	N	P	1,4,13	1	1	\$81								\$81
Echo Lake	4.79	7	N	C	1,4,6,13,18	0.5	0.5	\$205								\$205
Kokanee Bend	185.52	7	N	P	1,2,6,11,13	19	19								\$1,500	\$1,500
Mcwenneger	12	7	N	P	1,4,6	0.75	0.75	\$87								\$87
Old Steel Bridge	128.07	7	N	P	1,4,6,24	25	25	\$358	20	\$945						\$1,303
Pauls Memorial	10	7	N		1,13,24	0.25	0.25	\$100								\$100
Pine Grove Pond	13	7	N	C	3,4,6,24	2.5	2.5	\$111	1.5	\$140						\$251
Pressentine	10.7	7	N	P	1,6,13,24	1	1	\$47								\$47
Shady Lane Pond	1.41	7	N	P	6	0.5	0.5	\$55	1.25	\$68						\$123
Skyles Lake	1.41	7	N	P	1,4,13	0.5			0.5	\$50						\$50
Smith Lake	3.16	7	N	P	1, 4, 6	0.5	0.5	\$85	1	\$25						\$110
Somers	2	7	N	C	24	0.5	0.05	\$85	1.5	\$45						\$130
Sportsman's Bridge	5.77	7	N	C	1, 4, 6	0.5	0.5	\$85	1	\$105						\$190
Teakettle	3.23	7	N	P	1,5,6,24	1.5	1.5	\$200	3	\$480						\$680
Whitefish River	6.19	7	N	P	Unk.	Unk										\$0
Woods Bay	11.7	7	N	P	1,24	0	0	\$0								\$0
Lake County																
Ducharme	51.22	15	N	C	1,24	0	0	\$0								\$0
Elmo	13	15	N	C	1,4,6,24	11	11	\$372								\$372
Horseshoe	22.94	15	N	C	1,4,18	0.5	0.5	\$87								\$87
Loon Lake/Ferndale	4.36	15	N	C	-	Unk										\$0
Swan River	58.52	15	N	C	1,4,6,13,17	40	40	\$321								\$321
Walstad Memorial	1.11	15	N	C	1,4,24	0.25	0.25	\$106								\$106
Lincoln County																
Glen Lake	1.74	56	N	C	6	1.5	1.5	\$383								\$383
Island Lake	40	56	N	C	1,4,6,7,24	2.5	2.5	\$263								\$263
Loon Lake/Eureka	0.56	56	N	C	-	-										\$0
Marl Lake	3.02	56	N	-	-	Unk										\$0
Savage Lake	5.99	56	N	C	Unk	Unk										\$0
Sophie Lake	17.82	56	N	C	24	1	1	\$191								\$191
Tetrault Lake	7.88	56	N	C	1,4,17	3	3	\$191								\$191
Sanders County																
Flat Iron Ridge	7.4	35	N	C	1,2,4,12	2	2	\$196								\$196
Kookoosint	2.03	35	N	C	24	0.25	0.25									\$0
McKay Landing	0.05	35	Y	C	-	Unk										\$0
Pair-A-Dice	12.6	35	N	C	24	1	1	\$106	3	\$225					\$45	\$376
FAS Totals	652.16					117	115.9	\$3,633	32.75	\$2,083	0	\$0	0	\$0	\$1,545	\$7,260

#### Weed Species Key

1 = Spotted Knapweed  
2 = Leafy Spurge  
3 = Dalmation Toadflax  
4 = Canada Thistle  
5 = Field Bindweed  
6 = Houndstongue

7 = Sulfur Cinquefoil  
8 = Diffuse Knapweed  
9 = Russian Knapweed  
10 = Whitetop  
11 = St. Johnswort  
12 = Common Tansy

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24 = Misc. Weeds

\*County Agreement Status = Current(C), or Pending(P)



## Region 1 FY16 Noxious Weed Management Report

### Parks

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Status			Arces	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
Flathead County																
Flathead Lake/Wayfarers	67.34	7	N	-	1,4,6,11	35	5				\$1,600					\$1,600
North Shore	160.92	7	-	-	-	0										\$0
Les Mason	7.5	7	N		1,4, 6,18	3	6	\$440								\$440
Lone Pine	270	7	Y	C	1, 3, 4, 5, 6, 11, 13, 17, 18, 24	200	0	\$3,500								\$3,500
Thompson Chain of Lakes	1165.9	7	N		1,4,6,11,12,13, 18	unknown?	4.4	\$850								\$850
Whitefish Lake	10.35	7	N		1, 4,13	2	2	\$296	5	\$600					\$20	\$916
Lake County																
Flathead Lake/Big Arm	216.68	15	N		1, 2, 4, 13	80	180	\$2,120			\$400					\$2,520
Flathead Lake/Finley Pt.	27.83	15	N		1,4,6	1	0		15	\$300						\$300
Flathead Lake/ W. Shore	129.25	15	Y	C	1, 2	20	0									\$0
Flathead Lake/Wild Horse	2163.9	15	N	C	1,2,4,6	900	0		22	\$2,000						\$2,000
F. Lake/Yellow Bay	15	15	N	C	1, 4	1	0		5	\$400						\$400
Lake Mary Ronan	119.54	15	Y	C	1, 2	25	0									\$0
Lincoln County																
Logan	17.58	56	Y	C	1, 4,6	7	10	\$714	5	\$440					\$500	\$1,654
Thompson Chain of Lakes	1592.7	56	Y	C	1,4,6,11,12,13, 18	unknown?	73.4	\$5,463								\$5,463
Sanders County																
Flat Iron	24.9	35	Y	C	1,2,4,6,11,12	3	2								\$196	\$196
Thompson Chain of Lakes	229.4	35	N		1,4,6,11,12,13, 18	unknown?										\$0
Thompson Falls	36.4	35	Y	C	1,2,4,6,11,12	10	3	\$130	10	\$400					\$257	\$787
Parks Totals	6255.2					1287	285.8	\$13,513	62	\$6,140	0	\$0	0	\$0	\$973	\$20,626

## Region 2 FY16 Noxious Weed Management Report

### Wildlife Management Areas

Site Name	Acres	Co #s	County Spray			Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Status	Agrmnt.			Arces	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
<b><u>Deer Lodge County</u></b>																	
Blue-Eyed Nellie	489	30	N	C	1	80	15.5	\$1,008									\$1,008
Garrity Mountain	5779	30	N	C	1,2,24	24	51.5	\$2,175	30	\$1,950							\$4,125
Lost Creek	1403	30	N	C	1,2	215											\$0
Warm Springs	1000	30	N	C	1,2,10,27	23	124.4	\$6,741									\$6,741
<b><u>Mineral County</u></b>																	
Fish Creek	34573	54	N	C	1,2,4,11	8500	97	\$6,305			9	\$900	2 Bio Mon.	\$220			\$7,425
<b><u>Missoula County</u></b>																	
Blackfoot/Clearwater	20663	4	N	C	1,2,24,6		1	\$65			2	\$200	1 Bio Mon	\$110			\$375
Marshall Creek	24170	4	N	C	1,4,6,13,17	60	6	\$390									\$390
Mount Jumbo	120	4	N	C	1,3,4,6	10	1	\$65									\$65
<b><u>Powell County</u></b>																	
Aunt Molly	1184	28	N	C	1,3,4,24	3											\$0
Blackfoot/Clearwater	7269	28			1,2,3,4,6,24		4.5	\$293									\$293
Nevada Lake	740	28	N	C	1	100	50	\$3,960			1	\$100	1Bio Mon.	\$110			\$4,170
Spotted Dog	37877	28	N	C	1,2,6,10	1500	83	\$5,356	18	\$2,000							\$7,356
<b><u>Ravalli County</u></b>																	
Calf Creek	2173	13	N	C	1,3,4,6	776	2	\$130									\$130
Three-Mile	6089	13	N	C	1,2,4,6,24	815	7	\$455									\$455
<b>WMA Totals</b>	<b>143529</b>					<b>12106</b>	<b>442.9</b>	<b>\$26,942</b>	<b>48</b>	<b>\$3,950</b>	<b>12</b>	<b>\$1,200</b>	<b>\$0</b>	<b>\$440</b>	<b>\$0</b>		<b>\$32,532</b>

#### Weed Species Key

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## Region 2 FY16 Noxious Weed Management Report

### Fishing Access Sites

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Status			Arces	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
<b><u>Deer Lodge County</u></b>																
Stuart Mill Bay	363	30	N	C	4,6,24	15	4	\$238	2	\$779						\$1,016
<b><u>Granite County</u></b>																
Bearmouth	3.5	46	N	C	1,2,4	2	3	\$178	0.1	\$39						\$217
Drummond	11.46	46	N	C	1	2										\$0
Medicine Tree	418	46	N	C	1,4	100										\$0
Gillies Bridge	2	46	N	C	1	0.5										\$0
<b><u>Mineral County</u></b>																
Natural Pier	10	54	N	C	1,2,7,24	5	1	\$59	0.1	\$39						\$98
St. Johns	77	54	N	C	4,24	5	3	\$178	0.1	\$39						\$217
Cyr Bridge	10	54	N	C	1	2	1	\$59	0.1	\$39						\$98
Big Pine	19	54	N	C	1,6,24	4	1	\$59	1	\$389						\$449
Forks	5	54	N	C	1	3	1	\$59								\$59
Tarkio East	6	54	N	C	1,2,3,7	5	2	\$119								\$119
Tarkio West	9	54	N	C	1,2,3,7	8	5	\$297								\$297
Quartz	11	54	N	C	1,2	5	2	\$119								\$119
Forest Grove	5.5	54	N	C	1,2,4	2	2	\$119	0.1	\$39						\$158
Big Eddy	20	54	N	C	1,2,24	15	3	\$178	1	\$389						\$568
Dry Creek	2	54	N	C	1,24	1			0.1	\$39						\$39
St. Regis	1	54	N	C	1,13	1			0.5	\$195						\$195
Alberton Gorge	329.5	54	N	C	1,2,3,7	100	15	\$891	1	\$389						\$1,280
<b><u>Missoula County</u></b>																
Bitterroot River North	112.7	4	N	C	1	20	4	\$238								\$238
Bitterroot River Parcel 4	3	4	N	C	1	1										\$0
Bitterroot River Pcl 4A-6	37.5	4	N	C	1	20										\$0
Bitterroot River Pcl 4A-7	4.3	4	N	C	1	2										\$0
Bitterroot River Pcl 5B	18.1	4	N	C	1	10										\$0
Buck House Bridge	3	4	N	C	1	0.5										\$0
Lolo	54.2	4	N	C	1,2,6	11	2	\$119								\$119
Chief Looking Glass	13	4	N	C	1,2	4	2	\$119	6	\$2,337						\$2,456
Angevine	8	4	N	C	1,2,3	5	1	\$59	2	\$779						\$838
Belmont Creek	2	4	N	C	1,6,4	0.5										\$0
Corrick's River Bend	32	4	N	C	1,2,4,6,24	20	3	\$178	0.1	\$39						\$217

# **Region 2 FY16 Noxious Weed Management Report** **Fishing Access Sites Continued**

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Status			Arces	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
Missoula County																
Daigles Eddy	10	4	N	C	1,2,24	10				\$0						\$0
Harper's Lake	60	4	N	C	1,2,4,6,24	52	12	\$713	0.5	\$195						\$907
Johnsrud Park	18	4	N	C	1,2	5	3	\$178	0.1	\$39						\$217
K. Ross Toole	29	4	N	C	1	5	2	\$119	0.1	\$39						\$158
Marco Flats	1.5	4	N	C	1,2,13	1	1	\$59								\$59
Ninemile Prairie	13.5	4	N	C	1,2	11			0.1	\$39						\$39
Red Rock	2	4	N	C	1,4	0.5										\$0
Roundup	5	4	N	C	1,6	5	2	\$119	0.1	\$39						\$158
Sheep Flats	10	4	N	C	1,2,4	5										\$0
Sunset Hill 3 Stall	0.5	4	N	C	1	0			0.1	\$39						\$39
Tibodeau	18	4	N	C	1,4	1.5			0.1	\$39						\$39
Weigh Station	6	4	N	C	1,2,3	5	2	\$119	2	\$779						\$898
Whitaker Bridge	2	4	N	C	1,4	1			0.1	\$39						\$39
Russell Gates Memorial	41	4	N	C	1,2,6	14	3	\$178	0.5	\$195						\$373
Beavertail Pond	53.5	4	N	C	1,2,3,6,24	40	8	\$475	0.5	\$195						\$670
Petty Creek	19	4	N	C	1,2,4,6,24	10	2	\$119	0.2	\$78						\$197
Deep Creek	136	4	N	C	1,2	30	40	\$2,375								\$2,375
Erskine	427	4	N	C	1,2,4,6,24	100			0.1	\$39						\$39
Kelly Island	656.5	4	N	C	1,2,4,3,	150	20	\$1,188	3	\$1,168						\$2,356
Schwartz Creek	14	4	N	C	1,2,12	4	2	\$119	0.5	\$195						\$313
Sha-Ron	2	4	N	C	1,2,4,8,10	0.1			0.5	\$195						\$195
Turah	24	4	N	C	1,3	2	1	\$59	0.5	\$195						\$254
Clearwater Br. - 6 Stall	0.5	4	N	C	1	0.1			0.1	\$39						\$39
Clearwater Crossing	18	4	N	C	1,6,4	5	2	\$119	1	\$389						\$508
Tamarack	4	4	N	C	1,4	1										\$0
Admin. Sites (FWP HQ)	14.48	4	N	C	1	5			6	\$2,337						\$2,337
Kona Bridge	4	4	N	C	1,24	1	1	\$59	0.2	\$78						\$137
Harper's Bridge	12.34	4	N	C	1,2	4	1	\$59	0.5	\$195						\$254
Davids Place Bitt North		4	N	C	1,2											\$0

## Region 2 FY16 Noxious Weed Management Report

### Fishing Access Sites Continued

Site Name	Acres	Co #s	County Spray			Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Status	Agrmnt.			Arces	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
<b><u>Powell County</u></b>																	
Brown's Lake	78	28	N	C	1,4,10,24	8	5	\$297	0.2	\$78							\$375
Cedar Meadow	3	28	N	C	4,2	1	1	\$59									\$59
Harry Morgan	65	28	N	C	1,4,6,7	7	2	\$119	0.2	\$78							\$197
Lincoln Canyon	7.5	28	N	C	1,4	3											\$0
Monture	110	28	N	C	1,2,6	13	2	\$119	1	\$389							\$508
River Junction	120	28	N	C	1,32	2	2	\$119									\$119
Upsata Lake	11	28	N	C	1,4	5	3	\$178	3	\$1,168							\$1,347
Kohrs Bend	8	28	N	C	1,2,4	3			1	\$389							\$389
Scotty Brown Bridge	2	28	N	C	1,6	1			0.2	\$78							\$78
Little Blackfoot	3.29	28	N	C	1,4	1											\$0
<b><u>Ravalli County</u></b>																	
Florence Bridge	9	13	N	C	1,7	2	1	\$59	0.1	\$39							\$98
Florence Bridge North	2.5	13	N	C	1	0.5											\$0
Poker Joe	12	13	N	C	1,4,24	3	4	\$238	0.5	\$195							\$432
Bass Creek	23	13	N	C	1,4,7,24	5	3	\$178	1	\$389							\$568
Bell Crossing	65	13	N	C	1,4,11,7	10	4	\$238	0.5	\$195							\$432
Tucker Crossing	256	13	N	C	1,4,6,11,24	55	1	\$59	0.5	\$195							\$254
Woodside Bridge	3.5	13	N	C	1	2	1	\$59	0.1	\$39							\$98
Demmons	0.97	13	N	C	1,6,11,24	1	1	\$59	0.2	\$78							\$137
Wally Crawford	2	13	N	C	1,4	1.5	1	\$59	0.1	\$39							\$98
Darby Bridge	3.75	13	N	C	1	2	1	\$59	3	\$1,168							\$1,228
Hannon Memorial	40.61	13	N	C	1,4,24	10	6	\$356	4	\$1,558							\$1,914
Cooper	5	13	N	C	1	1	1	\$59									\$59
Forest Cooper	3.27	13	N	C	1	0.5											\$0
WW White	1.65	13	N	C	1	1											\$0
Whittecar Rifle Range	30.5	13	N	C	1,7,11	10											\$0
Woodlot	20	13	N	C	1	5											\$0
FAS Totals	4079.12					991.2	196	\$11,638	46.6	\$18,149	0	\$0	\$0	\$0	\$0	\$0	\$29,787

#### Weed Species Key

1 = Spotted Knapweed	7 = Sulfur Cinquefoil	13 = Ox-eye Daisy	19 = Tall Buttercup
2 = Leafy Spurge	8 = Diffuse Knapweed	14 = Dyers Woad	20 = Tamarisk (Saltcedar)
3 = Dalmation Toadflax	9 = Russian Knapweed	15 = Purple Loosestrife	21 = Yellow Starthistle
4 = Canada Thistle	10 = Whitetop	16 = Tansy Ragwort	22 = Common Crupina
5 = Field Bindweed	11 = St. Johnswort	17 = Meadow Hawkweed	23 = Rush Skeletonweed
6 = Houndstongue	12 = Common Tansy	18 = Orange Hawkweed	24 = Misc. Weeds

\*County Agreement Status = Current(C), or Pending(P)

## Region 2 FY16 Noxious Weed Management Report

### Parks

Site Name	County Spray				Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
	Agmmt.	Y/N	Status	Arces			Cost	Acres	Cost	Releases	Cost	Acres	Cost			
<u>Mineral County</u>																
Fish Creek SP	5603	54	N	N	1,2,3,6,7,1 1,13	750	125	\$6,250	8	\$1,532	2167	\$2,000				\$9,782
<u>Missoula County</u>																
Travelers Rest	80	4	N	N	1,2,4,6,12, 13	20	40	\$2,220	31	\$5,487						\$7,707
Beavertail Hill	65	4	N	N	1,2,3,4,6	5	15	\$840	8	\$1,450						\$2,290
Council Grove	187	4	N	N	1,2,3,4	33	20	\$1,093	3	\$531						\$1,624
Frenchtown Pond	41	4	N	N	1,2,4	1	15	\$510	38	\$6,729						\$7,239
Placid Lake	31	4	N	N	1,4,6	3	10	\$520	8	\$1,399						\$1,919
Salmon Lake	42	4	N	N	1,4,6	2	8	\$445	5	\$754						\$1,199
Milltown	112	4	N	N	1,2,3,4,6,1 2,19	20	35	\$1,925	3	\$617						\$2,542
<u>Ravalli County</u>																
Fort Owen	2	13	N	N	1	0.2	1	\$80	5	\$885						\$965
Painted Rocks	23	13	N	N	1,4	10	10	\$553	1	\$38						\$590
Parks Totals	6186					844.2	279	\$14,436	110	\$19,422	2167	\$2,000	\$0	\$0	\$0	\$35,858

#### Weed Species Key

1 = Spotted Knapweed  
 2 = Leafy Spurge  
 3 = Dalmation Toadflax  
 4 = Canada Thistle  
 5 = Field Bindweed  
 6 = Houndstongue

7 = Sulfur Cinquefoil  
 8 = Diffuse Knapweed  
 9 = Russian Knapweed  
 10 = Whitetop  
 11 = St. Johnswort  
 12 = Common Tansy

13 = Ox-eye Daisy  
 14 = Dyers Woad  
 15 = Purple Loosestrife  
 16 = Tansy Ragwort  
 17 = Meadow Hawkweed  
 18 = Orange Hawkweed

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## Region 3 FY16 Noxious Weed Management Report

### Wildlife Management Areas

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Status			Arces	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
<b><u>Beaverhead County</u></b>																
Robb Ledford	9781	18	Y	C	1,6	900	0	\$0					8000	\$495		\$495
Gravelly-Blacktail	17422	18	Y	C	1,4,6,24	400	0	\$0								\$0
<b><u>Broadwater County</u></b>																
Canyon Ferry WMA	5000	43	N	C	1,2,4,6,9,10,	500	0	\$0								\$0
<b><u>Butte-Silverbow County</u></b>																
Duhamé	1800	1		C	1,2,4	125	0	\$0								\$0
Fleecer	7394	1		C	1,9,24	150	26	\$1,300								\$1,300
Mt. Haggin	9471	1		C	1,2,4,10,24	1600	14	\$100								\$100
<b><u>Deer Lodge County</u></b>																
Mt. Haggin	49357	30		C	1,2,4,10,24	8400	40	\$2,700								\$2,700
<b><u>Gallatin County</u></b>																
Gallatin	8540	6		C	1,6,24	250	0	\$0								\$0
<b><u>Lewis &amp; Clark County</u></b>																
Canyon Creek	2200	5	N	C	1,6,24	300	0	\$0								\$0
Lake Helena	300	5		C	1,9,10,24	50	0	\$0								\$0
<b><u>Madison County</u></b>																
Madison - Bear Cr.	3456	25	Y	C	1,6,24	250	2	\$100								\$100
Madison - Wall Cr.	7067	25	Y	C	1,2,6,24	80	49.8	\$2,490								\$2,490
Robb Ledford	18317	25	Y	C	1,4,6,24	1000	13	\$650					10000	\$496		\$1,146
<b><u>Park County</u></b>																
Dome Mt	4789	49		C	1,4,6,24	200	0	\$0								\$0
<b>WMA Totals</b>	<b>144894</b>					<b>14205</b>	<b>144.8</b>	<b>\$7,340</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>18000</b>	<b>\$991</b>	<b>\$0</b>	<b>\$8,331</b>

#### Weed Species Key

1 = Spotted Knapweed  
2 = Leafy Spurge  
3 = Dalmation Toadflax  
4 = Canada Thistle  
5 = Field Bindweed  
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\*County Agreement Status = Current(C), or Pending(P)

## Region 3 FY16 Noxious Weed Management Report

### Fishing Access Sites

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Agmnt. Y/N	Status			Acres	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
<b><u>Beaverhead County</u></b>																
Blacktail Meadows	5	18	Y	C											\$440	\$440
Corrals	2.5	18	Y	C											\$440	\$440
Grasshopper	2	18	Y	C	1, 6,16	0	0.0178	\$16							\$440	\$456
Henneberry	600.4	18	Y	C	4,6,14	5	0.26	\$60							\$476	\$536
High Bridge	13	18	Y	C											\$440	\$440
Pipe Organ Bridge	3.5	18	Y	C	1, 4, 6	0	0.03	\$12							\$440	\$453
Poindexter Slough	395	18	Y	C											\$440	\$440
Brownes Bridge	10.41	18	Y	C	1	0.1	0.013	\$20							\$440	\$460
Dewey/George Grant	4.39	18	Y	C	4, 6	0	0.018	\$29							\$440	\$469
Maidenrock	200.16	18	Y	C	1, 2, 4, 6, 12, 19	2	0.13	\$56							\$440	\$496
Maidenrock BLM	15	18	Y	C	1,4,6,24	10	0.58	\$168							\$440	\$608
Glen	7.85	18	Y	C											\$440	\$440
Salmon Fly	12.27	18	Y	C	3,4,12,24	0.2	0.009	\$20							\$440	\$460
Greenwood Bottoms	6.13	18	Y	C	1, 4, 6, 12										\$445	\$445
<b><u>Broadwater County</u></b>																
Toston	4.24	43	Y	C	1,4, 6	2									\$454	\$454
Yorks Islands	16.14	43	Y	C	1, 4	0.2									\$481	\$481
<b><u>Butte-Silverbow Cnty</u></b>																
Powerhouse	35.2	1	Y	C	1,9	0.1	0.009	\$7							\$440	\$447
<b><u>Deer Lodge County</u></b>																
Fishtrap Creek	82	30			1,3,4,15	0.5	0.07	\$62							\$440	\$502
Sportsman Park	21	30	Y	C	3,7,16,19	2	0.05	\$14							\$440	\$454
<b><u>Gallatin County</u></b>																
Axtell Bridge	4.26	6	Y	C	1, 4, 6, 12	0.2	0.01	\$31							\$466	\$498
Bozeman Ponds (city)	24.2	6	NA	NA											\$440	\$440
Cameron Bridge	145.69	6	Y	C	1, 4, 6, 12, 24										\$476	\$476
Cherry River	75.96	6	Y	C	2,4,6,12,14,15, 18,24	10	0.5	\$154							\$475	\$630
Erwin Bridge	71.74	6	Y	C	1,3,6,12,13,15,	12	0.357	\$104							\$483	\$587



## Region 3 FY16 Noxious Weed Management Report

### Fishing Access Sites Continued

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Status			Acres	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
<b><u>Madison County</u></b>																
Kountz Bridge	38.34	25	Y	C	1, 2, 4, 6, 14, 16, 24	0.8	0.133	\$40							\$440	\$480
Silver Star	25.93	25	Y	C											\$440	\$440
Burnt Tree Hole	26.94	25	Y	C	1,4,6,9,14,15	0.8	0.071	\$89							\$445	\$534
Damselfly	2	25			1,2,4,6,14,15,24	1	0.089	\$31							\$440	\$472
Eight Mile Ford	30	25	N	C	1,4,6,9,18,24	0.3	0.044	\$81							\$440	\$521
Ennis	76.74	25	Y	C	1,3,4,6,9,24	8	0.22	\$80							\$440	\$520
Lyon's Bridge	2	25	Y	C	1,4,6,7,15,24	0.5	0.142	\$124							\$452	\$576
McAtee Bridge	5.84	25	Y	C	1,6,15,16,24	0.5	0.112	\$33							\$462	\$495
Meadow Lake	5.57	25	Y	C	4,6,9,14,15	0.2	0.02	\$19							\$440	\$459
Raynolds' Pass	161.95	25	Y	C	1,4,6,9,16,24	30	0.22	\$188							\$558	\$745
Three Dollar Bridge	100	25	Y	C	1,4,6,7,16	10	0.16	\$45							\$454	\$500
Valley Garden	147.21	25	Y	C	1,2,4,6,15	45	1.106	\$127							\$466	\$594
Varney Bridge	5	25	Y	C	1,4,6,15	0.8	0.04	\$35							\$468	\$503
Alder Bridge	8.9	25	Y	C	1,4,6										\$395	\$395
Ruby Dam	1.5	25	Y	C	1,4,6,9,24	1	0.671	\$150							\$440	\$590
Ruby Reservoir ROW	NA	25	Y	C	1	0.3	0.6	\$51							\$440	\$491
Ruby Island	50.56	25	Y	C	1, 4										\$446	\$446
Silver Springs Bridge	24	25	Y	C	1, 4, 6										\$472	\$472
Vigilante	69	25	Y	C	1,4,6,9,14,15,24	10	0.316	\$84							\$440	\$524
<b><u>Park County</u></b>																
Brogans Landing	1	49	Y	C	11,24	0.1	0.017	\$190							\$390	\$580
Carter's Bridge	2.82	49	Y	C	2,4,6,12,24	0.2	0.008	\$126							\$398	\$524
Chicory	1.71	49	Y	C	1,4	0.1	0.044	\$176							\$385	\$560
Crystal Cross	23	49	Y	C	1,10,12,24										\$399	\$399
Dailey Lake	259.6	49	Y	C	1,4,6,9,13,16,24	6	0.178	\$182							\$439	\$621
Emigrant	2.32	49	Y	C	1,6,24	0.1	0.013	\$103							\$394	\$498
Emigrant West	70.74	49	Y	C	1,13,19,24										\$401	\$401
Free River	13.41	49	Y	C	1, 2,4,7,12,24										\$413	\$413
Grannis	1	49	Y	C	2,4,6,12	0.1	0.017	\$93							\$390	\$483
Grey Owl	36	49	Y	C	1,4,6,24	5	0.49	\$133							\$421	\$554

## Region 3 FY16 Noxious Weed Management Report

### Fishing Access Sites Continued

County Spray																
Site Name	Acres	Co #s	Agrmnt.		Weed Species	Infested Acres	Chem. Treatment Acres	Chem. Treatment Cost	Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Status					Acres	Cost	Releases	Cost	Acres	Cost		
Park County																
HWY 89 Bridge	1.95	49	Y	C	4,6,9,24	0.53	0.0089	\$158							\$422	\$579
Loch Leven	75.44	49	Y	C	1,4,6,9,14,16,24	5	0.669	\$239							\$451	\$690
Mallard's Rest	18.12	49	Y	C	6,11,12,14,16,2	3	0.16	\$122							\$395	\$517
Mayor's Landing (city)	2.8	49	NA	NA											\$377	\$377
Paradise	2.58	49	N	C	1,6,12,19	0.5	0.071	\$105							\$386	\$492
Pine Creek	2.23	49	N	C	1,6,14,15	0.05	0.008	\$104							\$395	\$500
Point of Rocks	58.75	49	N	C	1,4,5,6,24	15	0.08	\$139							\$426	\$564
Queen of the Waters	10	49	N	C											\$398	\$398
Sheep Mountain	7.47	49	N	C	4,6,9,12	0.5	0.17	\$111							\$405	\$516
Slip & Slide	14.31	49	N	C	1,4,6,24	1	0.026	\$106							\$394	\$500
Springdale Bridge	15.52	49	Y	C	2,4,10,12,13,15,	1.5	0.04	\$113							\$404	\$517
Sunnybrook Spring	53	49	Y	C	1,4,6,12,24	0.5	0.044	\$105							\$397	\$502
FAS Totals	5369					355.58	13.9267	\$5,616	0	\$0	0	\$0	0	\$0	\$40,042	\$45,658

#### Weed Species Key

1 = Spotted Knapweed  
 2 = Leafy Spurge  
 3=Yellow Toadflax  
 4 = Canada Thistle  
 5 = Field Bindweed  
 6 = Houndstongue

7 = Sulfur Cinquefoil  
 8 = Diffuse Knapweed  
 9= Black Henbane  
 10 = Whitetop  
 11= Dalmatian Toadflax  
 12 = Common Tansy

13 = Ox-eye Daisy  
 14= Musk Thistle  
 15=Hoary Alyssum  
 16=Bull Thistle  
 17=Scotch Broom  
 18=Poison Hemlock

19 = Tall Buttercup  
 20 = Tamarisk (Saltcedar)  
 21 = Yellow Starthistle  
 22 = Common Crupina  
 23 = Rush Skeletonweed  
 24 = Misc. Weeds

#### NOTES:

FY16 Miscellaneous costs are associated with the overall Region Three Weed Control Program and attributed to the following: The one time purchase of Weed control software and field hardware used in the collection of GPS data associated with the application of chemicals at each of the FAS in Region Three. There were major repairs of weed control equipment and replacement, such as repairs to ATVs and Spray Equipment. Other Misc. costs was staff training and routine monitoring for weeds at all of the Regional FAS.

## Region 3 FY16 Noxious Weed Management Report

### Parks

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Status			Acres	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
<b><u>Beaverhead County</u></b>																
Bannack	1623	18	N	stable	1,4,6	4	4	\$1,900								\$1,900
Clarks Lookout	7	18	N	stable	1	0										\$0
<b><u>Carbon County</u></b>																
Cooney	309	10	Y	stable	1,4,6,7,10,24	3	14	\$2,900								\$2,900
<b><u>Deer Lodge County</u></b>																
Lost Creek	512	30	N	>	1,4,24	1.5	1	\$1,196	0.5	\$520	2	\$400				\$2,116
Anaconda Stack	13	30	N	stable	1	0			120							\$0
<b><u>Gallatin County</u></b>																
Missouri Headwaters	532	6	N	stable	1,2,4,5,6,10	8	6	\$4,550	5	\$900	6	\$1,200				\$6,650
Madison Buffalo Jump	638	6	N	stable	4,10,24	<1	1	\$240								\$240
<b><u>Granite County</u></b>																
Granite	0.65	46	N	stable	0	0		\$0								\$0
<b><u>Jefferson County</u></b>																
Lewis and Clark Caverns	2920	51	N	>	1,2,4,6,24	20	17	\$8,100	25	\$2,200	1	\$100				\$10,400
<b><u>Madison County</u></b>																
Beaverhead Rock	85	25	N	>	1,4,6,10,24	5	5	\$900								\$900
<b><u>Sweet Grass County</u></b>																
Greycliff P.Dog Town SP	95	40	N	>	1,2,4,5,6,24	2	2	\$640								\$640
Parks Totals	6734.7					43.5	50	\$20,426	150.5	\$3,620	9	\$1,700	0	\$0	\$0	\$25,746

#### Weed Species Key

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 5 = Field Bindweed  
 6 = Houndstongue

7 = Sulfur Cinquefoil  
 8 = Diffuse Knapweed  
 9 = Russian Knapweed  
 10 = Whitetop  
 11 = St. Johnswort  
 12 = Common Tansy

13 = Ox-eye Daisy  
 14 = Dyers Woad  
 15 = Purple Loosestrife  
 16 = Tansy Ragwort  
 17 = Meadow Hawkweed  
 18 = Orange Hawkweed

19 = Tall Buttercup  
 20 = Tamarisk (Saltcedar)  
 21 = Yellow Starthistle  
 22 = Common Crupina  
 23 = Rush Skeletonweed  
 24 = Misc. Weeds

\*County Agreement Status = Current(C), or Pending(P)

## Region 4 FY16 Noxious Weed Management Report

### Wildlife Management Areas

County Spray																
Site Name	Acres	Co #s	Agmnt. Y/N	Status	Weed Species	Infested Acres	Chem. Treatment Acres	Treatment Cost	Mech. Treatment Acres	Treatment Cost	Insect Releases	Cost	Grazing Acres	Cost	Misc. Cost	Total Cost
<b><u>Cascade County</u></b>																
Beartooth	7451	2	Y	C	4,6,0	10	2	\$40							\$140	\$180
<b><u>Fergus County</u></b>																
Beckman	6565	8	Y	C	1,2,4,6,10,	50	*70	\$140								\$140
							31	\$624			29	\$2,900			\$1,408	\$4,931
<b><u>Judith Basin County</u></b>																
Judith River	9409	36	Y	C	1,2,4,6,10,	43	**170	\$340								\$340
							67	\$1,348							\$1,365	\$2,713
<b><u>Lewis &amp; Clark Cnty</u></b>																
Beartooth	28320	5	Y	C	1,2,3,4,6,7, 10,0	325	17	\$342							\$132	\$474
Sun River	21023	5	Y	C	1,2,4,6,0	48	48	\$966							\$299	\$1,265
<b><u>Meagher County</u></b>																
Smith River	3527	47	Y	C	1,2,3,6	18	0								\$185	\$185
<b><u>Pondera County</u></b>																
Marias River	1858	26	Y	C	1,2,9,10,2	500	0				10	N/C			\$707	\$2,802
											21	\$2,095				
<b><u>Teton County</u></b>																
Blackleaf	10718	31	Y	C	1,2,4,6	13	10	\$201							\$140	\$341
Ear Mountain	3043	31	Y	C	1,2,6	2	2	\$40							\$100	\$140
Freezout Lake	12384	31	Y	C	1,2,4,9,10, 30	43	20, ***560	\$1,522							\$156	\$1,679
<b><u>Toole County</u></b>																
Marias River	5946	21	Y	C	1,2,4,6,9,1 27,0	2000	90	\$1,811							\$640	\$2,451
<b>WMA Totals</b>	<b>1E+05</b>					<b>3052</b>	<b>1087</b>	<b>\$7,374</b>	<b>0</b>	<b>\$0</b>	<b>60</b>	<b>\$4,995</b>	<b>0</b>	<b>\$0</b>	<b>\$5,271</b>	<b>\$17,640</b>

\*Beckman WMA 70 acre treatment for Chem-fallow in vegetation enhancement project.

\*\*Judith River WMA 170 acre treatment for Chem-fallow in vegetation enhancement project.

\*\*\*Freezout Lake WMA 560 acre treatment for field chem-fallow, vegetation enhancement projects, and road edge treatment

Beckman and Marias River WMAs 5250 cyphocleonus achates (root weevil) for spotted knapweed.

Marias River WMA 1000 acroptilonica (gall wasps) Russian knapweed bio-agent donated by APHIS.

Weed Species Key

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14 = Dyers Woad  
15 = Purple Loosetrife  
16 = Tansy Ragwort  
17 = Meadow Hawkweed  
18 = Orange Hawkweed

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21 = Yellow Starthistle  
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## Region 4 FY16 Noxious Weed Management Report

### Fishing Access Sites

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Agmmt. Y/N	Status			Acres	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
<b>Cascade County</b>																
Big Bend	17	2	N		2,4,6	10	10	\$300								\$300
Cottonwood Grove	5	2	N		1,2,4,6	1	1	\$300							\$15	\$315
Devil's Kitchen	1	2	N		1,2	2	2	\$100							\$15	\$115
Dunes	61	2	N		1,2,4,6	2	2	\$698							\$15	\$713
Eagle Island	15	2	N		2	10	10	\$100							\$15	\$115
Fort Shaw	3	2	N		1,2,4	1	1	\$100							\$15	\$115
Hardy Bridge	15	2	N		1,3,4,6	3	3	\$100							\$15	\$115
Largent's Bend	164	2	N		1,2,4,6,10	4	4	\$1,634							\$15	\$1,649
Little Muddy Creek	22	2	N		1,2,4,6	1	1	\$413							\$15	\$428
Medicine River	11.6	2	N		1,2,4,6	5	5	\$380							\$15	\$395
Mid Canon	9	2	N		1,3,4,6	3	3	\$300							\$15	\$315
Mountain Palace	1	2	N		1,2,3,6	1	1	\$100							\$15	\$115
Pelican Point	95	2	N		1,2,3,4,5	2	2	\$1,200							\$15	\$1,215
Prewett Creek	2.8	2	N		1,2,3,6	3	3	\$195							\$15	\$210
Truly Bridge	5	2	N		1,2,4,6	5	5	\$400							\$15	\$415
Ulm Bridge	163	2	N		1,2,4,6,10	10	1	\$1,700							\$15	\$1,715
White Bear	41	2	N		1,2,4,6	3	3	\$500							\$15	\$515
Wing Dam	10	2	N		1,4	1	1	\$200							\$15	\$215
<b>Chouteau County</b>																
Carter Ferry	20	19	Y	Y	1,2,4	60	60	\$450							\$15	\$465
Loma Bridge	5	19	Y	Y	1,2,6	1	1	\$150							\$15	\$165
Widow Coulee	5	19	Y	Y	1,2,4	1	1	\$350							\$15	\$365
<b>Fergus County</b>																
Brewery Flats	23	8	Y	Y	1,2,4,6	3	3.3	\$210							\$15	\$225
Carroll Trail	6	8	Y	Y	1,2,4,6	2	2.6	\$300							\$15	\$315
Hatchery FAS	2.26	8	Y	Y	1, 6											\$0
Hruska	45	8	Y	Y	1,2,4,6	1	1.3	\$511							\$15	\$526
Lazy KB	14	8	Y	Y	1,2,4,6	3	3	\$65							\$15	\$80
Lower Carter Pond	5	8	Y	Y	1,2,4,6	1	1	\$485							\$15	\$500
Mountain Acres	6.2	8	Y	Y	1,2,4	1	6.25	\$440							\$15	\$455

## Region 4 FY16 Noxious Weed Management Report

### Fishing Access Sites Continued

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Agrmnt. Y/N	Status			Acres	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
Fergus County																
Reed & Bowles	51	8	Y	Y	1,2,4,6	1	1.6	\$200	0		0	\$0	0	\$0	\$15	\$215
Upper Carter Pond	4	8	Y	Y	1,2,4,6	1	0.6	\$140	0		0	\$0	0	\$0	\$15	\$155
Upper Spring Ck	5	8	Y	Y	1,2,4,6	3	3.3	\$14	0		0	\$0	0	\$0	\$15	\$29
Lewis & Clark Cnty																
Bean lake	16	5	N		1,2,4	3	3.5	\$0	0		0	\$0	0	\$0	\$15	\$15
Bull Pasture	1.4	5	N		1,2,4,6	0.5	0.05	\$200	0		0	\$0	0	\$0	\$15	\$215
Causeway	1.21	5	N					\$100							\$15	\$115
Craig	2.5	5	N		1,2,4	0.1	0.1	\$100	0		0	\$0	0	\$0	\$15	\$115
Dearborn	3	5	N		1,2,4	0.1	0.1	\$100	0		0	\$0	0	\$0	\$15	\$115
Helena Regulating Reservoir	450	5	N		1,2,6			\$1,200							\$15	\$1,215
Lake Helena	2	5	N		1,2,6			\$100							\$15	\$115
Lichen Cliff	1	5	N		1,2,3,4,5	0.05	0.05	\$50	0		0	\$0	0	\$0	\$15	\$65
Lone Tree	1.2	5	N		1,2,4,6	0.5	0.1	\$50	0		0	\$0	0	\$0	\$15	\$65
Nilan Reservoir	12	5	N		1,4	1	1.5	\$400	0		0	\$0	0	\$0	\$15	\$415
Prickley Pear	1	5	N		1,2,4,6	1	1	\$50	0		0	\$0	0	\$0	\$15	\$65
Spite Hill	13.4	5	N		1,2,4	0.1	0.1	\$400	0		0	\$0	0	\$0	\$15	\$415
Stickney Creek	1.5	5	N		1,2,4	0.1	0.05	\$100	0		0	\$0	0	\$0	\$15	\$115
Upper Prickly Pear	36	5	N													\$0
Willow Creek Reservoir	10	5	N		1,4	1	1	\$150	0		0	\$0	0	\$0	\$15	\$165
York Bridge	10.4	5	N		1,2,6			\$200							\$15	\$215
Wolf Creek Bridge	1	5	N		1,2,6	0.5	0.12	\$100	0		0	\$0	0	\$0	\$15	\$115
Meagher County																
Fort Logan FAS	50	47	N		1,2,4	12	12	\$500	0		0	\$0	0	\$0	\$15	\$515
Martinsdale Reservoir	26	47	N		1,2,4	6	6	\$500	0		0	\$0	0	\$0	\$15	\$515
Newlan Creek Reservoir	20	47	N		1,2,4	25	25	\$1,500	0		0	\$0	0	\$0	\$15	\$1,515

## Region 4 FY16 Noxious Weed Management Report

### Fishing Access Sites Continued

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment Acres	Chem. Treatment Cost	Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Agrmnt. Y/N	Status					Acres	Cost	Acres	Cost	Releases	Cost		
<u>Teton County</u>																
Arod	20	31	Y	Y	1,2,4	0.05	0.05	\$200	0		0	\$0	0	\$0	\$15	\$215
Bynum	70	31	Y	Y	1,4	2	2.25	\$300	0		0	\$0	0	\$0	\$15	\$315
Eureka	40	31	Y	Y	1,2,4,7	2	2.5	\$375	0		0	\$0	0	\$0	\$15	\$390
Pishkun Reservoir	50	31	Y	Y	1,4	0.05	0.5	\$125	0		0	\$0	0	\$0	\$15	\$140
FAS Totals	1672					200.05	198.92	\$18,835	0	\$0	0	\$0	0	\$0	\$780	\$19,615

#### Weed Species Key

1 = Spotted Knapweed  
 2 = Leafy Spurge  
 3 = Dalmation Toadflax  
 4 = Canada Thistle  
 5 = Field Bindweed  
 6 = Houndstongue

7 = Sulfur Cinquefoil  
 8 = Diffuse Knapweed  
 9 = Russian Knapweed  
 10 = Whitetop  
 11 = St. Johnswort  
 12 = Common Tansy

13 = Ox-eye Daisy  
 14 = Dyers Woad  
 15 = Purple Loosestrife  
 16 = Tansy Ragwort  
 17 = Meadow Hawkweed  
 18 = Orange Hawkweed

19 = Tall Buttercup  
 20 = Tamarisk (Saltcedar)  
 21 = Yellow Starthistle  
 22 = Common Crupina  
 23 = Rush Skeletonweed  
 24 = Misc. Weeds

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## Region 4 FY16 Noxious Weed Management Report

### Parks

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Agmnt. Y/N	Status			Acres	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
<u>Cascade County</u>																
First Peoples SP	1425	2	Y	C	1,2,4,5,10,31,32,0	20	2	\$203	20		no	n/a			\$320	\$523
Giant Springs SP	800	2	Y	C	1,2,3,4,5,6,10,15,31,32,0	25	2	\$201	20		3	\$0			\$243	\$443
Heritage Grnwy. CE	450	2	Y	C	1,2,3,4,5,6,10,15,31,32,0	25	2	\$283	15		no	n/a			\$171	\$455
Smith River SP	598	2	Y	C	1,2,4,6,28,31,32,0	100	121	\$9,561	22		no	n/a			\$7,407	\$16,968
Sluice Boxes SP	1451	2	Y	C	1,2,3,4,6,13,24,28,31,32,0	60	3	\$474	15		2	\$0			\$297	\$771
Tower Rock SP	140	2	Y	C	1,3,4,6,31,32,0	15	1	\$161	1		no	n/a			\$225	\$386
<u>Judith Basin County</u>																
Ackley Lake SP	160	36	N	P	1,4,5,6,10,31,32,0	5	1	\$130	3		no	n/a			\$267	\$398
<u>Jefferson County</u>																
Elkhorn SP	1	51	N	P	1,4,6,28,31,32,0	1	1	\$243	1		no	n/a			\$202	\$444
<u>Lewis &amp; Clark Cnty</u>																
Black Sandy SP	43	5	Y	C	1,3,31,0	7	1	\$208	2		no	n/a			\$155	\$363
Spring Meadow SP	61	5	Y	C	1,2,3,4,5,6,10,15,28,31,32,0	15	1	\$149	5		no	n/a			\$244	\$392
<u>Meagher County</u>																
Smith River SP	346	47	Y	C	1,2,4,6,28,31,32,0	100	49	\$4,848	35		no	n/a			\$3,763	\$8,611
Parks Totals	5475					373	184	\$16,461	139	\$0	5	\$0	0	\$0	\$13,293	\$29,754

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 17 = Meadow Hawkweed  
 18 = Orange Hawkweed

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 20 = Tamarisk (Saltcedar)  
 21 = Yellow Starthistle  
 22 = Common Crupina  
 23 = Rush Skeletonweed  
 24 = Misc. Weeds

\*County Agreement Status = Current(C), or Pending(P)



## Region 5 FY16 Noxious Weed Management Report

### Wildlife Management Areas

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment Acres	Chem. Treatment Cost	Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Agrmnt. Y/N	Status					Acres	Cost	Releases	Cost	Acres	Cost		
<u>Big Horn County</u>																
Grant Marsh	99	22	Y	C	1,24	50		\$253								\$253
<u>Carbon County</u>																
Silver Run	638	10	N	C	1,4,6	300	20	\$5,500								\$5,500
<u>Stillwater County</u>																
Big Lake	1964	32	N	C	4	75										\$0
<u>Wheatland County</u>																
Haymaker	1321	44	N	C	1,2,4,6,24	50										\$0
<u>Yellowstone County</u>																
Yellowstone	4666	3	N		2,4,6,9,24	412	6	\$650								\$650
WMA Totals	8688					887	26	\$6,403	0	\$0	0	\$0	0	\$0	\$0	\$6,403

#### Weed Species Key

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 24 = Misc. Weeds

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## Region 5 FY16 Noxious Weed Management Report

### Fishing Access Sites

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment Acres	Chem. Treatment Cost	Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Status					Acres	Cost	Releases	Cost	Acres	Cost		
<b><u>Big Horn County</u></b>																
Arapooish	95	22	Y		1,4,20	20	8.2	\$552	1.5	\$90						\$642
General Custer	34	22	Y		1,4,5,6,20	16	2.5	\$253	2.5	\$130						\$383
Big Horn	72	22	Y		4,5,6,20	30	2	\$253								\$253
Mallard's Landing	43	22	Y		4,5,20	12	2	\$253	1	\$45						\$298
Two Leggins	30	22	Y		1,4,5,6,20	10	8.2	\$552	1	\$45						\$597
Grant Marsh	137	22	Y		1,4,5,6,20	64	8.2	\$530	2	\$90						\$620
<b><u>Carbon County</u></b>																
Beaver Lodge	61	10	Y		1,4,6,24	5	1	\$445								\$445
Black Diamond	2	10	Y		1,2,4,6	1										\$0
Bridger	3	10	Y		2	1	1	\$368	0.5	\$23						\$391
Bridger Bend	12	10	Y		1,4,6,24	6	0.5	\$348								\$348
Bluewater Fish Hatchery	50	10	Y		1,4,6,24	40	2	\$377								\$377
Bull Springs	32	10	Y		1,4,6,24	16	1.5	\$414	0.25	\$45						\$459
Horsethief Station	84	10	Y		1,2,4,6	12	2	\$395	2.5	\$130						\$525
Clarks Fork Of the Ys	173	10	Y		4,5,6	12	4	\$977	1.5	\$90						\$1,067
Weymiller	5	10	Y		1,10,4	1.05	1	\$406								\$406
Water Birch	77	10	Y		1,2,4,6	16	2	\$712	1.5	\$90						\$802
<b><u>Stillwater Cnty</u></b>																
Absaroka	1	32	Y			1	0.98	\$253								\$253
Buffalo Jump	6	32	Y		1	3	6.82	\$361								\$361
Castle Rock	80	32	Y		6,4,24	10	6.8	\$253	0.75	\$90						\$343
Cliff Swallow	160	32	Y		1,6,24	10	160.05	\$400	2	\$130						\$530
Fireman's Point	162	32	Y		2,6,24	10	162.11	\$253	0.25	\$23						\$276
Homestead Isle	191	32	Y			100										\$0
Indian Fort	19	32	Y		2,6,24	10	15.75	\$606	6	\$270						\$876
Moraine	60	32	Y		6,4,24	10	59.99	\$361	1.25	\$75						\$436
Rosebud Isle	11	32	Y			9	10.911	\$400	1	\$90						\$490

## Fishing Access Sites Continued

Site Name	Acres	Co #s	County Spray		Weed Species	Infested Acres	Chem. Treatment Acres	Chem. Treatment Cost	Mech. Treatment Acres	Mech. Treatment Cost	Insect		Grazing		Misc. Cost	Total Cost
			Agrmnt. Y/N	Status							Releases	Cost	Acres	Cost		
<b><u>Stillwater County</u></b>																
Swinging Bridge	4	32	Y		2,6	4	6.221	\$322	1.5	\$90						\$412
Jeffery's Landing	4	32	Y		1,6	0.5	3.74	\$369								\$369
White Bird	23	32	Y		2,6	12	21.451	\$369	1	\$45						\$414
Holmgren	72	32	Y		1,6,24,4	30	71	\$1,224								\$1,224
<b><u>Sweet Grass</u></b>																
Big Rock	70	40	Y		1,2,4,6	69	75.85	\$253	1	\$45			75.85	\$1,000		\$1,298
Boulder Forks	72	40	Y		1,2,4,5,6,24	32	72.42	\$596	1.5	\$90						\$686
Bratten	93	40	Y		4,5,6,24	40	92.73	\$253	0.5	\$23			92.73	\$960		\$1,236
Grey Bear	25	40	Y		1,2,4,6,24	25	25.2	\$409	1.75	\$120						\$529
Otter Creek	29	40	Y		1,2,4,5,6,9,	7	28.03	\$499	2.5	\$270						\$769
Pelican	122	40	Y		1,2,4,5,6,24	62	122.06	\$506	0.5	\$45			122.1	\$960		\$1,511
<b><u>Wheatland</u></b>																
Deadman's Basin	101	44	Y		1,4,6	35	7.34	\$645	4	\$540						\$1,185
Selkirk	265	44	Y		1,2,4,6	125	19	\$1,488	3	\$180						\$1,668
Harlowton	15	44	Y		1,2,4	0.5	4	\$453								\$453
<b><u>Yellowstone</u></b>																
Broadview Pond	53	3	Y		24	5			0.5	\$45						\$45
Buffalo Mirage	16	3	Y		1,2,20,24	20	0.75	\$329								\$329
Captain Clark	148	3	Y		4,5,24	61	1.5	\$318	2	\$180						\$498
Duck Cr. Bridge	27	3	Y		1,2,4,6,24	2.5	0.5	\$344								\$344
East River Bridge	1	3	Y		2,24	1	0.5	\$293								\$293
Gritty Stone	14	3	Y		1,2,24	6	0.5	\$293	1	\$90						\$383
Manuel Lisa	38	3	Y		5,1,24	30	0.75	\$324	0.5	\$90						\$414
South Hills	2	3	Y			0										\$0
Bundy Bridge	5	3	Y		2,24	3	1.5	\$358								\$358
Voyagers Rest	20	3	Y		2,24	10	2.25	\$449								\$449
FAS Totals	2819					1005.55	1026.8	\$19,819	46.75	\$3,308	0	\$0	290.6	\$2,920	\$0	\$26,046

### Weed Species Key

1 = Spotted Knapweed  
 2 = Leafy Spurge  
 3 = Dalmation Toadflax  
 4 = Canada Thistle  
 5 = Field Bindweed  
 6 = Houndstongue

7 = Sulfur Cinquefoil  
 8 = Diffuse Knapweed  
 9 = Russian Knapweed  
 10 = Whitetop  
 11 = St. Johnswort  
 12 = Common Tansy

13 = Ox-eye Daisy  
 14 = Dyers Woad  
 15 = Purple Loosestrife  
 16 = Tansy Ragwort  
 17 = Meadow Hawkweed  
 18 = Orange Hawkweed

19 = Tall Buttercup  
 20 = Tamarisk (Saltcedar)  
 21 = Yellow Starthistle  
 22 = Common Crupina  
 23 = Rush Skeletonweed  
 24 = Misc. Weeds

\*County Agreement Status = Current(C), or Pending(P)

## Region 6 FY16 Noxious Weed Management Report

### Wildlife Management Areas

Site Name	Acres	Co #s	County		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Status			Acres	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
<u>Hill County</u>																
Fresno Reservoir	2802	12	Y	C												\$0
Lost River	2992	12	N		24	0.2	0.2	\$86								\$86
Fresno Tailwater	135	12	Y	C												\$0
Rookery	2276.9	12	Y	C	4,9,2,1	160	370	\$3,321								\$3,321
<u>Phillips County</u>																
Cree Crossing	396	11	Y	C	2	16	16									\$0
Dodson Creek	38.72	11	Y	C	2,4	20	20	\$200								\$200
Dodson Dam	735.05	11	Y	C	2,1,4,18	65	65	\$362								\$362
Dodson South Canal	160	11	Y	C	2	2										\$0
Milk River	1310	11	Y	C	2,4,18	50										\$0
<u>Richland County</u>																
Fox Lake	1545.8	27	Y	C	4	3										\$0
<u>Valley County</u>																
Hinsdale	255	20	Y	C	2,4,18	11										\$0
Vandalia	310	20	Y	C	4,2,24	2										\$0
WMA Totals	12956					329.2	471.2	\$3,968	0	\$0	0	\$0	0	\$0	\$0	\$3,968

#### Weed Species Key

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 24 = Misc. Weeds

\*County Agreement Status = Current(C), or Pending(P)

## Region 6 FY16 Noxious Weed Management Report

### Fishing Access Sites

Site Name	Acres	Co #s	County		Weed Species	Infested Acres	Chem. Treatment Acres	Chem. Treatment Cost	Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Spray Status					Acres	Cost	Releases	Cost	Acres	Cost		
<u>Blaine County</u>																
Faber Reservoir	50	24	Y	C	4,24	4	1	\$100								\$100
<u>Daniels County</u>																
Whitetail Reservoir	65.14	37	Y	C	4	1	1	\$100								\$100
<u>Garfield County</u>																
Rock Creek	5	50	Y	C	1,4	1.5	1.5	\$125								\$125
<u>Hill County</u>																
Bear Paw Lake	185.04	12	Y	C	4,1	8.5	0.25									\$0
Bailey Reservoir	55	12	Y	C	4,1	5	5	\$527								\$527
Fresno Tailwater	35	12	Y	C		0										\$0
<u>Phillips County</u>																
Bjornberg Bridge	20.74	11	Y	C	2,4,18	0.5					yes					\$0
Cole Ponds	139.1	11	Y	C	2,4,18	0.15										\$0
<u>Richland County</u>																
Culbertson Bridge	11.3	27	Y	C	4,2	1	1	\$94								\$94
Snowdon Bridge	12.13	27	Y	C	2,4,18	3.5	3	\$143								\$143
<u>Roosevelt Cnty</u>																
Lewis and Clark	43.59	17	Y	C		0										\$0
<u>Valley County</u>																
Duck Creek	12	20	Y	C	4,9,18	0.2	0	\$0	0	\$0	0	\$0	0	\$0	\$0	\$0
Ft Peck Dredge Cuts	122.6	20	Y	C	4,2	5	4	\$300								\$300
Glasgow Base Pond	16.17	20	Y	C	4	2	1	\$150								\$150
School Trust	1.5	20	Y	C		0										\$0
FAS Totals	654.17					32.35	17.75	\$1,539	0	\$0	0	\$0	0	\$0	\$0	\$1,539

## Region 6 FY16 Noxious Weed Management Report Parks

Site Name	Acres	Co #s	County		Weed Species	Infested Acres	Chem. Treatment Acres	Cost	Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Spray Status					Acres	Cost	Releases	Cost	Acres	Cost		
Sheridan County																
Brush Lake	301.94	34	N	P	2,4	0.5	0	\$0	1.5	\$25	0	\$0	0	\$0	\$260	\$285
Parks Totals	301.94					0.5	0	\$0	1.5	\$25	0	\$0	0	\$0	\$260	\$285

## Region 6 FY16 Noxious Weed Management Report Administrative Sites and Affiliated Lands

Site Name	Acres	Co #s	County		Weed Species	Infested Acres	Chem. Treatment Acres	Cost	Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Spray Status					Acres	Cost	Releases	Cost	Acres	Cost		
Hill County																
Havre Area Office	1	12	N		24	0.2	0.2	\$35								\$35
Valley County																
Fort Peck Hatchery	100	20	N	P	18,12,5,2,1	36	8	\$500	15	\$250						\$750
Fort Peck Office	0.1	20	N	P												\$0
Glasgow Reg Hqtrs	1.69	20	Y	C	4,18	0.1	0.5	\$100								\$100
Other Sites Totals	102.79					36.3	8.7	\$635	15	\$250	0	\$0	0	\$0	\$0	\$885

### Weed Species Key

1 = Spotted Knapweed	7 = Sulfur Cinquefoil	13 = Ox-eye Daisy	19 = Tall Buttercup
2 = Leafy Spurge	8 = Diffuse Knapweed	14 = Dyers Woad	20 = Tamarisk (Saltcedar)
3 = Dalmation Toadflax	9 = Russian Knapweed	15 = Purple Loosestrife	21 = Yellow Starthistle
4 = Canada Thistle	10 = Whitetop	16 = Tansy Ragwort	22 = Common Crupina
5 = Field Bindweed	11 = St. Johnswort	17 = Meadow Hawkweed	23 = Rush Skeletonweed
6 = Houndstongue	12 = Common Tansy	18 = Orange Hawkweed	24 = Misc. Weeds

\*County Agreement Status = Current(C), or Pending(P)

## Region 7 FY16 Noxious Weed Management Report

### Wildlife Management Areas

Site Name	Acres	Co #s	County		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Spray Status			Acres	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
<b><u>Custer County</u></b>																
Ft. Keogh Islands	79	14	Y	C	2,4,24	17.67										\$0
<b><u>Dawson County</u></b>																
Three Mile	8.1	16	Y	C	1,2,4	7										\$0
War Dance Isld	11.5	16	Y	C	2, 13	6.85										\$0
<b><u>Prairie County</u></b>																
Badlands	2.3	45	N	C	20	0.55										\$0
<b><u>Richland County</u></b>																
Elk Island	1227.5	27	Y	C	2, 4, 20	74	42	\$3,436								\$3,436
F Island	119	27	Y	C	2, 4, 20	52.19										
Seven Sisters	562.3	27	Y	C	2, 4, 20	28.15	14	\$1,271								\$1,271
<b><u>Rosebud County</u></b>																
Howard Valley	0.2	29	N	C	20											\$0
<b><u>Treasure County</u></b>																
Amelia Island	238.8	33	Y	C	1, 4, 6, 20	8.07	2									\$0
Isaac Homestead	1168.5	33	Y	C	1, 4, 5, 6, 20, 24	136.15	2									\$0
Sanders	0.3	33	N	C	4, 20											\$0
<b>WMA Totals</b>	<b>3417.5</b>					<b>330.63</b>	<b>60</b>	<b>\$4,707</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,707</b>

#### Weed Species Key

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## Region 7 FY16 Noxious Weed Management Report

### Fishing Access Sites

Site Name	Acres	Co #s	County		Weed Species	Infested Acres	Chem. Treatment Acres	Chem. Treatment Cost	Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Spray Y/N	Status					Acres	Cost	Releases	Cost	Acres	Cost		
<b><u>Custer County</u></b>																
Kinsey Bridge	27.7	14	Y	C	1,2,4, 6,	5	1	\$71								\$71
Bonfield	56.1	14	Y	C	1,4,20	2	1.375	\$71							\$57	\$129
Roche Juane	1	14	Y	C	5	0.5	1	\$71								\$71
Twelve Mile Dam	26.4	14	Y	C	1,4,5	3.56	1.325	\$68							\$47	\$115
<b><u>Dawson County</u></b>																
Intake Dam	52.6	16	Y	C	2, 4	5.56	7.5	\$600							\$77	\$677
Johnson Reservoir	60	16	Y	C	4, 5	3	3.25	\$597							\$38	\$635
Black Bridge	81	16	Y	C	1, 2, 4, 5,	52	18	\$1,927								\$1,927
Stipek	76	16	Y	C	1, 2, 4, 6	28	35	\$4,022								\$4,022
<b><u>Fallon County</u></b>																
South Sandstone	599	39	Y	C	4, 5	7.21	0.25								\$38	\$38
<b><u>Powder River Cnty</u></b>																
Broadus Bridge	2.9	9	Y	C	2	1										\$0
<b><u>Prairie County</u></b>																
Fallon Bridge	5.3	45	Y	C	2, 20	1.59	2.15	\$222								\$222
<b><u>Richland County</u></b>																
Diamond Willow	80.1	27	Y	C	2, 4	2.47	1	\$192								\$192
Elk Island FAS	82	27	Y	C	1,2 , 4, 6	35	5.5	\$613								\$613
Seven Sisters FAS	2	27	Y	C	1,2,4,6,24	1.5	2.5	\$381								\$381
Gartside	160	27	Y	C	4,6	8.28	11.75	\$739							\$38	\$778
Sidney Bridge	2.4	27	Y	C	2,4,24	2	1	\$192								\$192
<b><u>Rosebud County</u></b>																
Far West	32.8	29	Y	C	2, 4, 6, 20	6	0.75								\$115	\$115
Rosebud (East Unit)	29	29	Y	C	4, 6, 20,	3										\$0
Rosebud (West	10.2	29	Y	C	4,6,24	2.35	0.125								\$19	\$19
<b><u>Treasure County</u></b>																
Amelia Island FAS	5	33	Y	C	1, 2,6	2	5.375	\$272							\$57	\$329
Myers Bridge	15	33	Y	C	1, 4, 6, 20,	15	0.6								\$92	\$92
FAS Totals	1406.5					187.02	99.45	\$10,037	0	\$0	0	\$0	0	\$0	\$579	\$10,617



## Region 7 FY16 Noxious Weed Management Report Parks

Site Name	Acres	Co #s	County		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Y/N	Status			Acres	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
Big Horn County																
Rosebud Battlefield	3052	22	N	P	3,4,5,6	40	40	\$1,000	1	\$0	0	\$0	0	\$0	\$4,000	\$5,000
Tongue R. Reservoir	685	22	N	P	1,4,5,20	10	7	\$958	0.5	\$0	0	\$0	0	\$0	\$450	\$1,408
Carter County																
Medicine Rocks	330.3	42	N	P	1,4	1	0	\$0	0	\$0	0	\$0	0	\$0	\$0	\$0
Custer County																
Pirogue Island	210.3	14	Y	C	4,20	6	6	\$403	0	\$0	0	\$0	0	\$0	\$0	\$403
Dawson County																
Glendive Rifle Range	357.28	16	N	P	24	2.6	2	\$645	0	\$0	0	\$0	0	\$0	\$52	\$698
Makoshika	11603	16	Y	C	1,2,4,24	30	24	\$2,348	0	\$0	0	\$0	0	\$0	\$1,981	\$4,329
Garfield County																
Hell Creek	337	50	N	P	1,4,24	2	2	\$648	3	\$0	0	\$0	0	\$0	\$886	\$1,534
Parks Totals	16575					91.6	81	\$6,002	4.5	\$0	0	\$0	0	\$0	\$7,369	\$13,371

## Region 7 FY16 Noxious Weed Management Report Administrative Sites and Affiliated Lands

Site Name	Acres	Co #s	County		Weed Species	Infested Acres	Chem. Treatment		Mech. Treatment		Insect		Grazing		Misc. Cost	Total Cost
			Spray Y/N	Status			Arces	Cost	Acres	Cost	Releases	Cost	Acres	Cost		
<u>Custer County</u>																
HQ Complex	6	14	N	P	1 5,4,24	2	0.5								\$77	\$77
Other Site Totals	6					2	0.5	\$0	0	\$0	0	\$0	0	\$0	\$77	\$77

APPENDIX A

Miscellaneous Weed Reports as Submitted  
by Regional Program Staff

## **2016 Weed Control Narrative for Region 1 - NW District**

- **Whitefish State Park**

- Overall strategy
  - Park has low infestation of various species including Canadian Thistle, Spotted Knapweed, Orange Hawkweed, and Oxeye Daisy.
  - Weed control is performed by FWP staff using a combination of hand pulling, as well as mechanical and chemical control methods.
- Specific Concerns
  - FWP staff has not been able to keep up with the various control methods, as higher priority projects have taken their time away from these efforts.
  - Park needs to be mapped to monitor existing populations and document any new infestations. Orange hawkweed discovered this year.
- Post growing season observations
  - Due to higher priorities, weed control efforts have been minimal. Staff will again try to emphasize a more concerted effort this next season.
  - Mechanical roadside treatments and spot spraying control methods are slowly reducing overall weed infestation.

- **Les Mason State Park**

- Overall strategy
  - Park has low infestations of Spotted Knapweed and Canadian Thistle. Orange Hawkweed was discovered this year
  - Over the last three years FWP staff has been able to maintain control of spread of the infestations by hand pulling as well as using both mechanical and chemical methods in appropriate areas.
- Specific Concerns
  - Knapweed exists along lake-shore; FWP staff has focused on hand pulling these populations.
  - Orange hawkweed was discovered along upper access road
  - Park needs to be mapped to monitor existing populations and document any new infestations.
- Post growing season observations
  - Still working on inventorying all of the smaller populations, but what has been found has been isolated and controlled with hand pulling, chemical and mechanical methods.
  - Overall, control methods have met with success in a decrease in number of infestations and sizes of these infestations are also decreasing.

- **Thompson Falls State Park**

- Overall strategy
  - Park uses contract with Sanders County for the majority of weed control. FWP staff contribute to control with both mechanical and chemical treatment methods.

- Park is 36.4 acres with approximately 10 acres infested with weeds including: Spotted Knapweed, Leafy Spurge, Canadian Thistle, Houndstongue, St. Johnswort, and Common Tansy.
- Specific Concerns
  - Park has a wide range of species present, thus the control methods need to be species specific.
  - Isolated weed populations exist throughout the park. Park needs to be mapped to monitor existing populations and document any new infestations.
  - FWP staff has not been able to keep up with the various weed control efforts, as higher priority projects have taken their time away from these efforts.
- Post growing season observations
  - County efforts are very obvious along road sides, as are FWP efforts. Unfortunately, the populations of the various weeds are located in the interior of the park and new populations have been discovered as the park is inventoried.
  - Treatment season was minimally successful considering other priorities and budgets.

- **Flat Iron FAS**

- Overall strategy
  - This site has been under contract with Sanders County. FWP staff will perform mechanical and chemical treatments as funding and time allow.
  - The site is 7.4 acres with approximately 3 acres infested with various weed species including Blueweed, Spotted Knapweed, Leafy Spurge and Canadian thistle.
- Specific Concerns
  - Questions about effectiveness of county broadcast spraying road sides - infestations not along road sides may be missed. These sites are small enough that county seems to be minimally controlling infestations.
  - This site needs to be mapped, in order to monitor existing populations and document any new infestations
- Post growing season observations
  - Treatment by Sanders County was minimally effective along road sides. County has been minimally effective in monitoring and controlling site specific populations through the use of herbicides.

## **Logan State Park**

- Overall strategy
  - Low infestations in the park are a result of the past efforts of FWP personnel and county contract spraying.
  - Isolated populations of Spotted Knapweed, Canadian Thistle, and Hounds Tongue exist and are targeted for mechanical and chemical control.
  - Contract with Lincoln County for initial broadcast spraying of park in spring.

- FWP staff spot sprays and performs mechanical treatment along road sides, as well as hand pulling isolated infestations.
- Specific Concerns
  - Turn-over of staff and educating new staff in the identification of the specific weeds has been a challenge.
  - FWP staff has not been able to keep up with the various weed control efforts, as higher priority projects have taken their time away from these efforts.
  - Park needs to be mapped to monitor existing populations and document any new infestations.
- Post growing season observations
  - Staff is becoming more effective in identifying and controlling the various weed populations.
  - Control efforts were minimal this last season due to higher priority projects. As a result, some control efforts were initiated and met with limited success.

### **Thompson Chain of Lakes (McGregors, Thompson Lakes, Horseshoe complex, and Crystal Lake)**

- Overall strategy
  - The TCL complex has been under contract with Lincoln County for the past few years. County typically sprays knapweed and thistle along the road sides and also some isolated Hawkweed patches that are known.
  - Historically, FWP personnel have spot sprayed at campsites and day-use areas. FWP staff continued to spray designated road sides concentrating on the McGregor Lake sites, as these are in Flathead County and not covered under the Lincoln County contract, as well as broadcast spraying throughout the 3,000 acre complex.
  - Biological control was initiated in summer of 2009. FWP, in cooperation with Lincoln County Weed Department, released 20,000 Spotted Knapweed root weevils at roughly 100 sites. The effectiveness of the insects is unknown at this time, as it typically takes a few seasons for the insects to establish. 6 monitoring plots were set-up among the various release locations.
- Specific Concerns
  - This site is over 3,000 acres and has a myriad of roads, making the control efforts a challenge. Knapweed infestations are increasing due to the lack of hours on the ground, even with the county contract.
  - Neighboring property owners not meeting their responsibility for controlling weeds on their respective properties. This only allows the knapweed infestations to grow unchecked. Effectiveness of county broadcast spraying road sides - infestations not along road sides, in the interior areas, are not being treated.

- Site needs to be mapped to monitor existing populations and document any new infestations
- Post growing season observations
  - Chemical control efforts saw success this year. Re-growth has occurred both in the McGregor Lake area treated by FWP personnel, as well as the Lincoln County areas that were treated by both county and FWP personnel.
  - Lincoln County has been good to work with. Reports submitted at end of fiscal year and at end of season.

## **Flathead Lake District 2016**

### **Big Arm Unit of Flathead Lake State Park**

- Overview of Strategy
  - Weed control efforts in Big Arm involved continued contract spraying in both spring and fall that focused on the areas above the campground. Target weeds included leafy spurge, spotted knapweed and ox-eye daisy. Spot spraying and mechanical efforts were also conducted by paid staff along the park roads, campground areas and hiking trails.
- Specific Concerns
  - Leafy spurge and knapweed are the two dominant weeds throughout the park with patches of ox-eye daisy west of Hwy 93.
- Post Growing Season Observations
  - No significant new infestations have arisen and there has been noticeable reduction of weeds in chemically treated areas. Infestations in mechanically treated areas have stabilized. Knapweed and leafy spurge will require continued monitoring supported by chemical and mechanical management efforts in 2017.

### **Finley Point Unit of Flathead Lake State Park**

- Overview of Strategy
  - Weed control efforts in 2016 at Finley Point involved hand pulling and mowing roadside edges. Overall weed infestation in Finley Park is currently low.
- Specific Concerns
  - The thinning project that was conducted in 2008 has been monitored closely for new infestations for 5 years. Inspections of this area were conducted during the summer of 2010 and 2012 with no new weed infestation observed. An excavation and construction project to the north and adjacent to the park occurred in 2014. This boundary area of the park will continue to be monitored for weed transference.
- Post Growing Season Observations
  - Weed infestation at Finley Point is low. No significant new infestations are currently observed.

### **Yellow Bay State Park**

- Overview of Strategy

- Weed control efforts at Yellow Bay involved hand pulling and mowing roadside edges. Overall weed infestation is currently very low.
- Specific Concerns
  - There are no major weed infestation concerns in Yellow Bay. Monitoring and immediate action on discovered weeds should result in continued low levels.
- Post Growing Season Observations
  - Weed infestation at Yellow Bay is low. No significant new infestations are currently observed.

### **Wayfarer State Park**

- Overview of Strategy
  - Weed control efforts at Wayfarers involves hand pulling and mowing of park roads, campground and day use area, the large meadow and along hiking trails.
- Specific Concerns
  - A patch of Houndstongue was discovered and hand pulled on the inside corner of the road on the Wayfarers side. No other specific concerns noted in the park itself. A few St. John's Wort plants did emerge on the edge of the main park road.
- Post Growing Season Observations
  - Weed control efforts in 2016 at Wayfarer have been successful. Other than what was noted under specific concerns, no significant new infestations are emerging.

### **Wild Horse Island State Park**

- Overview of Strategy
  - The weed control efforts on Wild Horse Island were restricted to hand pulling in small locations. The weed inventory that was developed and started last year, was finished this year, giving park management a great assessment of weed density and locations. Cheat grass and Canada thistle were the most notable weeds with high levels of infestations.
- Specific Concerns
  - The small patches of leafy spurge on the northeast and south sides of the Island need to be closely monitored. The site contained limited leafy spurge in 2016. Leafy Spurge flea beetles were released in these areas in July 2016.
  - The 5 acres that contained a wildland fire in July of 2015 has shown emergence of cheat grass. This area will likely be a test plot for chemical control methods for cheat grass in 2017, however the logistics of chemical application on an island produces its own challenges.
- Post Growing Season Observations
  - The data collected this year will assist in control methods in 2017.

### **Lone Pine District**

#### **Lone Pine State Park**

- Overview of strategy

- Weed control efforts continue and are focused on trail corridors and the acreage that has been previously thinned, in addition to the southeast ¼ of the park.
- Mechanical efforts mostly reflect hand pulling efforts by volunteers and paid staff.
- AmeriCorps weed monitoring project will identify all know weed plots and monitor changes in plots annually. Project identifies weed type, size of infestation, and number of locations in park.
- Specific concerns
  - 2016 DNRC PRS grant was the focus of the funding for weed control for 2016. \$3500 was spent to treat this 20 acre area in the spring. Additionally a DNRC forestry crew volunteered digging out hounds tongue rosettes in September.
  - A small amount of Dalmatian toadflax was sprayed next to the campground host pad and another west of the visitor center. Will monitor effectiveness for 2017
  - The newest 40 acres of the park has currently the highest infestation of the park. The neighboring property on two sides also has a high infestation of weeds. This parcel will be of high priority in the years to come. Was not sprayed in 2016 but will split the allocation in 2017 with the DNRC project area
  - The 70 acre area thinned in 2007 has shown an increase in Hounds tongue and Canada thistle, These areas were the focus of hand pulling by volunteer groups. Monitor in 2017
- Post 2016 Growing Season Observations
  - New AmeriCorps member did a great deal of pulling and organizing work days with multiple groups to pull weeds. Monitoring efforts have helped staff pinpoint problem areas and pull areas where there hasn't been funding for chemical.
  - We have continued to spray areas that have historically had a high infestation and thus high seed bank. This strategy seems to be successful so far and we will continue it into next year. Areas which could not be sprayed were pulled during times of flowering to reduce additions to the seed bed and roots spreading.

## **West Shore State Park**

- Overview of strategy
  - Since most of the park is in relatively good shape lacking heavy infestations, efforts were focused on pockets of areas on throughout the trail system and west of the highway. Monitoring summer of 2016 yielded few species being located in park except for a few mullen and hounds tongue – which were hand pulled. No spray was applied in West Shore focusing funding on Lone Pine.
- Specific Concerns
  - There are still some pockets of infestation throughout the trail system that need to be contained before they spread further.
  - The parcel to the west of the highway remains a concern due to the abundance of weed in that area and potentially high seed bank in the soil.
- Post 2016 Growing Season Observations



- We did not conduct fall spraying this year and so will spray in the spring next year. Western Weed control was used in June of 2015 to complete the spraying project. Few weed species observed and those located were pulled.

### **Lake Mary Ronan**

- Overview of strategy
  - After several years of spraying by Lake County, infestation levels have dropped, allowing small patches to be controlled using herbicide (Milestone) applied by park staff and a sickle to knock down the thistle.
- Specific Concerns
  - The two wetland areas in the park continue to show an infestation of Canada thistle even though previous efforts have reduced the infestation. These areas will need to be monitored and sprayed using Milestone as re-growth appears.
- Post 2016 Growing Season Observations
  - Park staff was very effective utilizing herbicide to control infestations. This method will be used for next year as well.



**TO: Chris Hagan**

**FROM: Morgan Dollinger - Parks Maintenance Foreman**

**DATE: November 21, 2016**

**SUBJECT: FY 2016 R-2 Parks Annual Weed Report - July 1, 2015 – June 30, 2016.**

Enclosed is the annual summary of all weed activities performed in R-2 Parks for FY 2016. This report includes all of the administrative, educational, mechanical, chemical, and biological control costs directly related to weed control.

The total FY 2016 cost of weed control in Region 2 Parks was: **\$35,857.71**

The Operations portion includes the mechanical control as well as all personal services and operations (mileage, repairs, equipment, per diem, chemicals, maintenance, education, training and administration of the program) as well as contracted services.

**OPERATIONS (Includes Mechanical Control)**

<b>Total</b>	<b>\$19,421.81</b>
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**CHEMICAL CONTROL CONTRACT**

<b>Total</b>	<b>\$14,435.90</b>
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**BIOLOGICAL CONTROL RELEASES**

<b>Total</b>	<b>\$ 2,000.00</b>
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<b>TOTAL COST FOR FY 2016:</b>	<b>\$35,857.71</b>
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## Region 3 Parks

### End of Season Noxious Weed Report FY16

Prepared by Scott Harvey, R3 Regional Maintenance Foreman

**Cooney-**Region again contracted with the Carbon County Weed Department. They provided campground sterilization as well as continuing their spraying efforts on the North Shore. Due to lower water levels this late summer, they were able to access difficult to reach areas by boat. Knapweed in Marshal Cove appears to be diminishing. Extra monitoring by park staff will be necessary to keep track of Knapweed expansion in the new Red Lodge Campground.

**Greycliff Prairie Dog Town-** Canada thistle and Black Henbane on the park's east boundary has sharply diminished. Satellite patches of Leafy Spurge are much reduced. Field bindweed on the parks west end still needs monitoring and we had a large breakout of Black Henbane along the deep ravine, also on the west end. It seems to have responded well to treatment. As a side note, Sheep Sorrel is increasing park wide.

**Missouri Headwaters-** Whitetop has been greatly reduced in the tract of land east of the park office. Canada thistle remains an ongoing species of concern park wide, especially in areas of high water table. Common Tansy at the boat ramp has been greatly reduced but a resurgence of Hoary Alyssum, especially at the water's edge, must be monitored. Hounds Tongue is pervasive at Ling Rock and the cottonwood forest at the west end of Fort Rock, across the road. This species is difficult to eradicate as it is most likely carried by smaller animals and flourishes under the shrubbery. The MCC Invasive Weed Strike Force spent a day spraying Knapweed on Ft. Rock and Hounds Tongue and Knapweed at Ling Rock. Park Ranger Alice Southworth released Aphona beetles at six sites of Leafy Spurge infestations and reported the beetle is flourishing at release sites from last season. Camp hosts took a proactive approach this season and sprayed and hand pulled Canada thistle and Spotted Knapweed at the campground and surrounding trails. Spotted knapweed at the confluence is slowly diminishing. Common Mullein is showing up by the confluence and was hand pulled.

**Madison Buffalo Jump-** The formerly pristine park is showing signs of increased visitor use with Whitetop appearing in mowed areas used for classes as well as Canada and Musk thistle appearing along trails. Some new patches of Common Mullein have been observed as well but it appears to be animal borne.

**Lewis and Clark Caverns-** The Caverns has seen an explosion in Common Mullein and, though not on the noxious list, efforts will be increased to help push back the onslaught. Close to 20 acres was mowed using a flail mower in hopes of reducing seed production. Spotted knapweed remains in manageable satellite monocultures; however some steep hillside work remains along Cave road. Many plants are showing evidence of Cleotus, a root boring weevil. The northwest section of the park has responded well to spraying efforts with visible reduction in Knapweed. We also hope to begin monitoring and spraying up Sheep Gulch next season. We will also need to focus heavily on Cave Gulch next year in light of the new septic system installation. Approximately an acre of Spotted Knapweed and some henbane will need to hit in the area early in the spring before work begins. MCC weed crews again trained and contracted with us. They spent most their focus along Cave road hitting Hounds tongue and Spotted Knapweed. We will be stepping up our efforts to train the MCC weed crews as they seem pretty raw when they use the Caverns for their training in the spring. Next season we will contract spray work at the Caverns in hopes of catching up.

**Lost Creek-**Spotted Knapweed, Canada thistle and common Mullein are the main species of concern at Lost Creek. Regional staff and the care taker hand pulled large amounts of Knapweed as well as spraying on the north mountainsides. The Cleotus weevil was released in two areas in the ravine just north of the host pad in efforts to reduce large monocultures on the cliff tops. A cooperative effort with the Anaconda-Deerlodge Weed District, local landowners and State Parks enabled four releases of Cleotus at the parks eastern boundary. With the increase of climber traffic to the north cliffs, more monitoring and spraying will need to be initiated.

**Bannack/Clarks Lookout/ Beaverhead Rock-** We again contracted with Basic Biological for work in all three parks. In Bannack work focused on Grasshopper Creek, roadsides and the northeast hills, mainly for Spotted Knapweed but also Hounds Tongue a new flush of Black Henbane. Some Whitetop was reported. Clarks Lookout has been reduced to a few stray Knapweed plants and remains in stable shape. The bottoms of Beaverhead Rock are still delivering large quantities of Whitetop, Black Henbane and Hounds Tongue. We hope to till next year as well, time allowing.

**Anaconda Stack/Granite-** The Stack has a manageable amount of stray Spotted Knapweed which is both mowed and sprayed. Sterilization was also done to walkways and road cracks. Granite has no weeds within the structures.

Regions 3 has continued with our education efforts by passing out weed identification books and are in the preliminary stages of assessing the Play-Clean-Go campaign with the Montana Noxious Weed Education program in hopes of placing weed awareness kiosks at strategic trail heads. Ranger efforts in bio-control work are showing excellent results and weed awareness education is worth the efforts.



## MONTANA STATE PARKS

 REGION 4 / FY 16 ANNUAL WEED SUMMARY  
 PREPARED BY JOSH WAGONER

July 1, 2015 through June 30, 2016 is the reporting period for noxious weed activity in Region 4.

**BLACK SANDY** – Dalmatian toadflax is the noxious weed of greatest concern, and the most abundant weed, at Black Sandy, primarily on the hillside west of the county road. Spotted knapweed, which is concentrated directly along both sides of the county road, is the only other significant species present on the property. Noxious weed management by State Parks maintenance staff via herbicide treatments has led to a decrease in both toadflax and knapweed. Committing a modest amount of resources, a day spraying in the spring and a day spraying in the fall, is the plan for the 2017 season, and the plan should result in continued decreasing toadflax and knapweed numbers.

**SPRING MEADOW LAKE** – Many species of state listed noxious weeds are present at the park, but the species of utmost concern is purple loosestrife. There was a small population on the western shore discovered in 2015. As a Priority 1B weed, it has a limited presence in Montana and requires eradication or containment and education. After eradication efforts, by means of herbicide and hand-pulling, over the past two years, it is now difficult or impossible to find a plant. Continued monitoring will be necessary. Elsewhere throughout the property, weeds were chemically treated by Parks maintenance staff. Hand-pulling and bagging was also carried out by seasonal groundskeeper staff. Weed education and pulling days with volunteers were led by Craig Putschat, the park manager, and Tony Overstreet, lead maintenance worker. Increased efforts will put into herbicide application in the coming season, as populations of most weed species in the park are steady or only slightly declining, and since herbicide application has been kept at a minimum over the past two seasons.

**ELKHORN** – The entire property is populated with spotted knapweed, musk and Canada thistle, and hoary alyssum because of lack of weed management on bordering properties. Due to lack of time and money, the primary means of management was mowing.

**FIRST PEOPLES BUFFALO JUMP** – There are only a few patches of noxious weeds at First Peoples Buffalo Jump, mostly consisting of Canada thistle and whitetop, and a huge majority of the park is relatively weed-free. The patches of weeds are easily treated by Parks maintenance staff. The small amount of weeds for such a large property sets an example of what we should strive for at the rest of the parks in Region 4. A population of leafy spurge was discovered on the east side of the property in 2016. It was thoroughly treated by Parks maintenance and Montana State Americorps.

**TOWER ROCK** – Overall, Tower Rock is not in poor condition concerning noxious weeds, but as can be expected, there are weeds on both sides of the trail corridor from the parking lot to the summit. Dalmatian toadflax, houndstongue, and spotted knapweed are the primary invaders. Herbicide treatment was conducted by Parks maintenance staff, which only requires a partial day commitment annually, and this will continue to be the plan going forward. Markedly increased weed control along the trail is being seen as a result of these treatments over the past two summers.

**GIANT SPRINGS** – Due to the physical size of Giant Springs and the large amount of visitation, weed management is a challenge. Populations are especially concentrated along the numerous developed and social trails. Although this does present difficulties, it can be used positively to educate and form partnerships too, which is why a collaborative effort between Montana Department of Agriculture's Noxious Weed Education Campaign and Montana State is in the works. The Adopt-a-Trailhead proposal involves educational signs and volunteer activity aimed at raising awareness concerning preventing the spread of weed seeds along trail corridors. Weed management across the property is done in cooperation with Parks maintenance and Northwestern Energy, and NWE is in full support of the Adopt-a-Trailhead campaign. Many state listed weeds are present on the property, but purple loosestrife, as mentioned at Spring Meadow, is the highest priority. It has been found along the Missouri River shoreline on Black Eagle Island, directly across the river from Giant Springs proper, and below the Coulter Falls parking area, although the latter infestation has been essentially eradicated. Parks maintenance applied multiple herbicide applications in the infested areas and conducted hand-pulling where necessary. Despite these efforts, the problem is increasing on the north shore of the Missouri, especially where access is frequently impossible, such as on islands. To help combat the spread of purple loosestrife, along with other noxious weeds, NWE and Parks maintenance are working together to create more complete and accurate mapping of the north shore. Dalmatian toadflax stem weevil releases were conducted on the south shore, and a strong biocontrol component will be a priority going forward. Giant Springs will be the focus of the majority of Region 4 weed management resources during the upcoming season.

**ACKLEY LAKE** – Weed infestation is minor at Ackley Lake, with most issues being around the inlet on the west side of the lake.

**SMITH RIVER** – Typical riparian and mountainous noxious weeds species are found throughout the river corridor, with infestations becoming more concentrated on the northern stretch of the river as cattle grazing intensifies. Biocontrol agents are active along the corridor, where microclimates allow. Two species that are not currently present on the river, but are found nearby, Dalmatian toadflax and Saltcedar, are of great concern. Prevention of establishment of these species is being emphasized through education, including material created for posting and distribution by Parks maintenance. Parks maintenance and river rangers planned and led a weed spraying float with four volunteers from the MSU Outdoor Recreation Program. A weed pulling float resulted in 500 gallons(!) of clipped weed seed heads. With access and manpower being the biggest challenge to Smith River weed management, these trips are crucial. Additionally, weed management efforts are performed in conjunction with State Parks, U.S. Forest Service, Cascade and Meagher Counties, private contractors and landowners.

**SLUICE BOXES** – As with Smith River, access is the primary challenge. For that reason, we also have an annual weed spraying float at Sluice Boxes, which always proves productive. The only other effective means of weed management in the park is hiking in with backpack sprayers, which we spend several days doing annually. Hoary alyssum is a continuing challenge in the park, and due to its reproductive capabilities, keeping it in check is problematic. Pulling and bagging alyssum, along with spotted knapweed, was a focus this year, and should prove beneficial. Three noxious weeds that are starting to have a limited presence on the property, leafy spurge and Dalmatian and yellow toadflax, are being targeted aggressively before they secure solid establishment. Dalmatian and yellow toadflax in close proximity are being specifically targeted, as recent research has shown that they are now hybridizing and forming a much more aggressive and difficult to kill plant. Knapweed root weevil, an effective biocontrol agent, was released in two areas of the park that are especially hard to reach. Despite difficulties, Sluice Boxes received a large amount of our weed management resources and is still heading in the right direction.

**OVERVIEW** – Staying on the cutting edge with the latest in weed management education assists in stretching our limited dollars. Great care is being taken to use the most effective herbicide formulations that are most environmentally friendly and with the least collateral damage, while also being price conscious. With this in mind, Josh Wagoner completed the Weed Manager II training at Montana State University to learn more about the most current management practices. Multiple employees, such as Doug Combs and Tony Overstreet, also attended trainings to maintain their current applicators licenses. Biocontrol releases are another management tool that we are trying to incorporate and take advantage of. The Adopt-a-Trailhead program is a tool that we would like to implement to educate the public and get them involved with and invested in our parks. Early Detection and Rapid Response principals are being implemented, which led to the discovery of black henbane in areas where it has never been seen before. Close working relationships and communication with other agencies, specifically county weed districts, are being maintained and nurtured. So, even with limited resources, Region 4 is striving and succeeding in being a good example and good neighbor.